MITTELHAUSER corporation

Immediate Removal Action Summary Report

For

COUNTY ROAD 10 LANDFILL
Elkhart, Indiana

Prepared for:

USEPA REGION V
EMERGENCY RESPONSE BRANCH
Mr. Paul Steadman, On-scene Coordinator
Pursuant to:
General Notice of Liability, May 12, 1992

Prepared by:

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Project No. 1044.03

August 27, 1992

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1.0 INTRODUCTION

1.1 BACKGROUND

On May 12, 1992, the United States Environmental Protection Agency (USEPA), Region V, issued a General Notice of Liability letter to the identified Potential Responsible Parties (PRPs) regarding the County Road 10 Landfill site (a.k.a. Himco Dump) located in Elkhart, Indiana. The letter indicated that immediate action was required to abate any releases or potential releases of contaminants from the facility. PRPs were offered the opportunity to fund or perform the necessary immediate action in lieu of response actions by USEPA. The necessary response actions identified in the Notice of Liability were: to excavate the ditch (TL5 test pit) near the center of the southern margin of the former landfill; to remove and dispose of excavated solvents and drummed waste; and to perform an extent of contamination survey in that area of the former landfill.

The Notice of Liability and immediate response action letter was motivated by the discovery of apparent separate-phase product and drums by USEPA-contracted investigators in the southeast corner of the TL5 test pit excavation on September 13, 1991. Analyses of liquid samples collected from the trench identified a limited number of aromatic hydrocarbons and ketones as the primary waste constituents. The trench was backfilled following sample collection, and its location was marked with survey stakes.

In voluntary cooperation with the General Notice of Liability, Himco Waste-Away Services, Inc. (Himco) of Elkhart, Indiana, contracted Mittelhauser Corporation (Mittelhauser) to conduct the required immediate response actions. A removal action work plan was prepared by Mittelhauser and submitted in person to USEPA Emergency Response Branch on May 15, 1992. Verbal approval of the work plan was granted at that time, and at the request of the USEPA Emergency Response Branch, removal action work commenced on May 19, 1992. In correspondence dated May 18, 1992, supplemental information was requested by USEPA subsequent to the USEPA's review of the removal action work plan. Conditional approval of the work plan was granted in the May 18, 1992 correspondence, pending receipt of the requested information. Mittelhauser submitted the requested information to USEPA in correspondence dated June 2, 1992.

1.2 PURPOSE

This report describes the activities and results of the immediate response actions conducted at the TL5 test pit area of

the County Road 10 Landfill site, Elkhart, Indiana. The immediate response actions described in this report include: the procedures and results associated with the exhumation of buried drums and the recovery of solvent product from the TL5 test pit area; methods and results of a limited extent of contamination survey in the TL5 area; and the disposal methods and documentation for wastes generated during the removal action. Photographic documentation of the removal action activities is provided as Appendix A to this report.

2.0 IMMEDIATE REMOVAL ACTION

During May 19 to 22, 1992, the TL5 test pit area was excavated, buried drums and solvent product were recovered from the excavation, and the wastes were staged for subsequent offsite disposal. The response actions were conducted in accordance with the Immediate Removal Action Work Plan, dated May 15, 1992. Site-specific conditions unknown prior to work plan preparation resulted in some field modifications to the work plan, which were approved by Mike Duet, USEPA oversight contractor.

2.1 REMOVAL ACTION MOBILIZATION/COORDINATION

On May 19, 1992, the initial site activities consisted of mobilization, orientation, and equipment staging. Laidlaw Environmental Services (Laidlaw) of Pecatonica, Illinois, was contracted by Mittelhauser to provide equipment and labor for the removal action. A representative of Mittelhauser was present as the onsite coordinator throughout the removal action. Mr. Michael Duet, Metcalf and Eddy, Inc., was present during the removal action and extent of contamination survey as the oversight representative for USEPA.

Other agency representatives present during portions of the removal action are listed below:

Paul Steadman	USEPA, Region V, Emergency Response Branch, On-scene coordinator.
Mary Elaine Gustafson	USEPA, Region V, Superfund Section, Remedial Project Manager.
Kirsten Evelkruge	Ecology & Environment, USEPA Technical Assistance Team (TAT).
[redacted] James Smith	Indiana Department of Environmental Management (IDEM), Office of Environmental Response, Superfund Section, Project Manager.
Ken Gill	IDEM, Office of Environmental Response, Geology Section.
Geoff Downie	Elkhart County Health Department.

A staging area for equipment and overpack containers was established on top of the former railroad berm immediately north

of and overlooking the TL5 test pit area. The berm trends approximately east-west and accounts for approximately 5 to 6 feet of relief. The staging area measured approximately 30 feet by 30 feet. The ground surface within this area was covered with 6-mil polyethylene sheeting. A roll-off box was placed on either side of the staging area. The roll-off boxes were used to store recovered drums, prior to offsite disposal.

The Laidlaw crew consisted of one equipment operator, two laborers for drum handling, etc., and a crew foreman/equipment manager. The work activities were supervised from the staging area by the Laidlaw foreman and the Mittelhauser onsite coordinator. The foreman, equipment operator, and one laborer were in constant 3-way radio contact.

2.2 DRUM EXCAVATION AND WASTE RECOVERY

2.2.1 Drum Removal

A Caterpillar EL 300 was used to excavate the TL5 test pit area. The excavator was initially positioned to begin the excavation at the southeast end of the TL5 test trench and work to the south and east. Two Laidlaw employees worked close to the bucket at all times to direct the track hoe operator and to provide manual labor for drum recovery and product recovery.

Organic vapor monitoring was performed in the field with a photoionization detector (PID). Organic vapors were not detected as the grass cover was initially broken. Removal of additional soil exposed refuse (wood and plastic debris) at a depth of approximately 1 foot below grade. At a depth of approximately 1.5 feet, corroded steel drums were encountered. Laidlaw personnel also observed liquids several feet below grade in cavities surrounding the drums. PID readings taken within the cavities reached 3,500 ppm.

The buried drums were systematically exposed by removal of refuse/overburden with the track hoe bucket. The drums were then further exposed by manual digging; Laidlaw personnel then secured lift straps and clamps to the exposed drum lids. The drums were then lifted from the excavation with the track hoe arm. Recovered drums that were empty were placed on a temporary, lined staging area. Recovered drums that contained waste material were placed into 85-gallon overpack drums temporarily staged at the edge of the excavation The empty drums were later staged in a lined roll-off box. The overpack drums were lifted from the edge of the excavation to the general staging area.

2.2.2 Description of Drums

The majority of the drums were submerged or partially submerged in groundwater when encountered. The water table maintained a level of approximately 3 to 3.5 feet below surface grade. Drums encountered in contact with groundwater were observed to be perforated, due to corrosion. The perforations generally ranged in size between 0.25-inch to 4-inch dimensions. The condition of the drums ranged from sparsely perforated to extremely perforated and fragmented. The few drums recovered from above the static water level were generally less corroded and in fair condition.

Most drums appeared to have been at least partially crushed prior to the removal action, and some were totally crushed. The drums that were encountered were positioned in random, overlapping orientations. The drums were recovered from a small but continuous area, generally between the depths of 1.5 to 5 feet below grade.

The drums were buried in refuse materials consisting primarily of plywood panelling, other scrap wood, masses of transparent tape, masses of paper/pulp material, and scrap asphaltic roofing materials.

The excavation process resulted in damage to some drums. The damage was unavoidable as a result of the overall poor condition of the drums, the type of refuse encountered, the overlapping and random orientation of the drums, and the occurrence of many drums beneath the shallow water table surface.

2.2.3 Description of Drum Contents

In general, the submerged drums were completely, or nearly completely, filled with groundwater as they were encountered. Product was observed in some drums or to emanate from the drums as a surface layer on the groundwater. Floating product was often observed to emanate from partially submerged, corroded drums and cavities in the walls of the excavation. The cavities were void spaces between drums and refuse material. Product had apparently accumulated where the water table intersected the void spaces.

Two types of liquid product were observed during the removal action: a slightly yellow, clear liquid and a dark red/brown liquid. Each liquid had a definite solvent odor. PID readings above the liquids attained values of up to 3,500 ppm. Drums containing liquid product were either recovered and placed into 85-gallon overpack drums or were emptied of their product

in-situ by use of a vacuum pump. Several drums containing significant product volume were damaged during excavation and their contents were released into the excavation. This product was recovered by vacuum pumping the material from the surface of the water table before continuing with additional excavation.

The majority of drums recovered during the removal action were empty, perforated 55-gallon drums. Several fragments and drum halves were also recovered. Several of the drums that were recovered and staged as empty drums contained small amounts of solidified paint waste. One 33-gallon drum contained a viscous asphaltic product. Two other drums contained crushed clay drain tiles and used rags. Nine drums containing liquid and solid solvent and paint waste were recovered and placed into 85-gallon overpack containers.

Five reconditioned 55-gallon, 17H open top drums, supplied by Laidlaw, were filled with paint sludge, solvent, soil, contaminated protective clothing, plastic sheeting, and miscellaneous contaminated debris that was generated during the drum removal and staging activities. An inventory of the wastes generated during May 19 to 22, 1992 is provided in Table 1.

2.2.4 Product Recovery

Several methods were used to recover product during the removal action. Floating product was periodically recovered from the excavation by bailing or pumping (air diaphragm pump and/or vacuum pump). When possible, product was recovered from drums in-situ by inserting a vacuum pump intake nozzle into the drum through a perforation and skimming from the surface to remove the product from the drum. Prior to the arrival of the tanker truck, recovered liquid product was pumped into reconditioned 55-gallon, 17H open top drums. Liquids were pumped directly into the tanker subsequent to its arrival onsite. Included in Table 1 are 14 reconditioned 55-gallon drums supplied by Laidlaw that were used initially to contain the recovered liquid wastes. These drums were later emptied by pumping their contents to the tanker truck.

Relatively intact drums containing product were placed into overpack drums when possible. If the drums could not fit the overpack, the liquid contents were collected into the overpack and then pumped to the tanker.

2.3 REMOVAL ACTION COMPLETION/DEMOBILIZATION

2.3.1 Extent of Removal Action Excavation

On Thursday, May 21, 1992, excavation activities were concluded after additional excavation failed to encounter any additional drums. At the request of Mr. Duet, the excavation was enlarged along its perimeter as a confirmatory measure. No further drums were encountered nor was product observed from the newly exposed walls of the excavation. Residual floating product was skimmed from the groundwater surface and pumped to the tanker. The approval to backfill the excavation was granted by Mr. Duet under authority of USEPA Emergency Response Branch. The excavation was backfilled to attain its original grade.

The attached site map (Figure 1) shows the location of the TL5 test pit area and the approximate location and dimensions of the removal action excavation. The excavation attained an overall dimension of approximately 35 feet by 35 feet. The edges of the excavation were oriented approximately north-south and east-west. At any given time, the open excavation was no larger than approximately 15 feet by 15 feet. Drums were encountered at depths between 2 and 5 feet below grade. The maximum depth of the excavation was approximately 7 feet. The materials encountered at depths greater than 4 or 5 feet consisted primarily of 1/4-inch plywood sheets. Sand was encountered at approximately 7 feet. Fine grained geologic materials (clay and silt) were not encountered in the excavation.

2.3.2 Demobilization

Demobilization activities consisted of drum labeling, profiling, and sampling by Laidlaw personnel. The overpack drums and 55-gallon reconditioned drums containing removal action waste were staged in a lined roll-off box. The empty drums recovered during the removal action were staged in another lined roll-off box. Both roll-off boxes were covered with tarps and remained onsite prior to offsite disposal.

Equipment decontamination consisted of decontaminating the bucket of the track hoe using a detergent wash, scrub brushes, and a rinse. Decontamination water was contained and placed into the hazardous waste tanker. The tracks of the excavator were scraped clean of adhering soil. Equipment decontamination was performed to the satisfaction of USEPA oversight personnel.

2.4 WASTE INVENTORY

An inventory of the drums recovered during the removal action and staged prior to demobilization is presented in Table 1. Each overpack drum and reconditioned drum containing waste generated during the removal action was labeled with waste profile information by Laidlaw personnel during the staging of the drums. Drums were segregated into groups according to similar profiles and were sampled by Laidlaw personnel for transport and disposal purposes. Later site activities (July and August 1992) resulted in the generation of additional drummed materials not included in Table 1. Those activities and materials are discussed in Section 4 of this report.

C.R. 10 Landfill
Removal Action
Elkhart, IN

August 1992
1044BS

TABLE 1

INVENTORY OF MATERIAL GENERATED
DURING THE TL5 TEST PIT AREA REMOVAL ACTION
MAY 19 TO 22, 1992

I. EMPTY DRUMS RECOVERED AND STAGED IN LINED ROLL-OFF BOX

DESCRIPTION OF RECOVERED DRUM	CONTENTS (1)	NO. OF DRUMS
Bunged, corroded, perforated, partially crushed, 55-gal closed top	Solid light blue sludge, residual	4
Bunged, corroded, perforated, partially crushed, 55-gal closed top	Solid light green sludge, residual	1
Bunged, corroded, perforated, partially crushed, 55-gal closed top	Solid light tan sludge, residual	3
Bunged, corroded, perforated, partially crushed, 55-gal closed top	Solid light red sludge, residual	1
No lid, corroded, perforated, partially crushed, 55-gal	Clay drain tile, trash	1
Semi-intact, 55-gal open top, open bung, large gash	Sludge residue	1
Semi-intact, 33-gal	Viscous tar-like material, full	1
Bunged, corroded, perforated, labeled "Toluene/Tolual"	Empty	2
Bunged, perforated, partially crushed, painted green, paint drippings on drum exterior	Empty	3
Bunged, perforated, crushed, w/stir rod	Empty	1

TABLE 1

INVENTORY OF MATERIAL GENERATED
DURING THE TL5 TEST PIT AREA REMOVAL ACTION
MAY 19 TO 22, 1992
(Page 2 of 5)

I. EMPTY DRUMS RECOVERED AND STAGED IN LINED ROLL-OFF BOX (continued)

DESCRIPTION OF RECOVERED DRUM	CONTENTS (1)	NO. OF DRUMS
Open bungs, perforated, crushed, w/stir rod, 55-gal	Empty	1
Open bungs, perforated, crushed, 55-gal	Empty	1
Open end, corroded, perforated, 55-gal	Rags, debris	1
Bunged, partially crushed, corroded, perforated, 55-gal closed top	Empty	25
Plastic bungs, crushed, perforated	Empty	1
Very corroded and very perforated, 55-gal; includes 2 partial drums (fragments)	Empty	12
TOTAL (empty drums including drum fragments):		59

TABLE 1

INVENTORY OF MATERIAL GENERATED
DURING THE TL5 TEST PIT AREA REMOVAL ACTION
MAY 19 TO 22, 1992
(Page 3 of 5)

II. INVENTORY OF MATERIAL DRUMMED INTO 85-GALLON OVERPACK DRUMS

DESCRIPTION OF RECOVERED DRUM	CONTENTS (2)	NO. OF DRUMS
Semi-intact, rusted	Paint drum w/10% liquid, 90% solid	1
Semi-intact, rusted	Solid paint drum, 80% paint solids, 20% soil	1
Semi-intact, rusted	Paint drum w/solvents 40% liquid, 60% solid	4
Semi-intact, rusted	Solid paint drum w/solvent and soil	1
Semi-intact, rusted	Solid paint	1
Semi-intact, rusted	Solid paint drum w/solvents	1
	TOTAL (85-gal overpack drums):	9

TOTAL DRUMS RECOVERED (including drum fragments)

Total (empty drums including drum fragments)....	59
Total (85-gal overpack drums).....	9
TOTAL:	68

TABLE 1

INVENTORY OF MATERIAL GENERATED
DURING THE TL5 TEST PIT AREA REMOVAL ACTION
MAY 19 TO 22, 1992

III. INVENTORY OF MATERIAL DRUMMED INTO 55-GAL 17H DRUMS

DESCRIPTION OF CONTENTS	NO. OF DRUMS
Paint sludge, 90% solids 10% liquid (3)	1
Tyvek/protective clothing contaminated w/paint solvents (4)	2
Plastic debris w/paint solvent solids (4)	1
Soil and debris contaminated w/paint solvent	1
Empty; last contained paint solvent waste (5)	14
TOTAL (55-gal 17H drums):	19

TABLE 1

INVENTORY OF MATERIAL GENERATED
DURING THE TL5 TEST PIT AREA REMOVAL ACTION
MAY 19 TO 22, 1992
(Page 5 of 5)

IV. SUMMARY

TOTAL NUMBER OF DRUMS RECOVERED
OR GENERATED DURING MAY 19 - 22, 1992

Total (empty drums including drum fragments).....	59
Total (85-gal overpack drums).....	9
Total (55-gal 17H drums).....	19
TOTAL NUMBER OF DRUMS:	87

APPROXIMATE VOLUME OF LIQUID WASTE IN TANKER
(Solvent waste and contaminated groundwater)..... 1,200 GALLONS

FOOTNOTES

(1) Describes the contents of the drums as staged in the roll-off box. An estimated 10 - 15 of these drums initially contained liquid product that was recovered by draining, bailing, or pumping into reconditioned drums and/or the tanker truck.

(2) Describes wastes in recovered drums.

(3) Contents of these drums recovered by draining, bailing, and/or shovelling liquids, solids, and semi-solids from recovered drums.

(4) Investigation derived wastes (protective clothing, plastic sheeting, etc.) drummed in reconditioned 55-gal 17H open top drums supplied by Laidlaw.

(5) Product recovered from excavation was originally placed in 14 reconditioned 55-gal 17H open top drums supplied by Laidlaw. The contents of drums were later transferred to hazardous waste tanker truck and are accounted for in the tanker waste volume estimate (1,200 gallons).

3.0 EXTENT OF CONTAMINATION SURVEY

3.1 METHODS/PROCEDURES

On June 4, 1992, a limited extent of contamination survey was conducted in the area of the TL5 test pit. The survey consisted of field screening and sample collection of subsurface materials at the seven locations shown in Figure 1. At each location, a soil boring was advanced using decontaminated hollow stem augers. Continuous split spoon samples were collected to the water table. Split spoons were decontaminated prior to each sample collection using detergent solution wash and multiple rinse. After the recovery of each split spoon, the sample core was screened for photoionizable constituents indicative of volatile organic compounds (VOCs) using an HNU photoionizing detector with 10.2 eV probe.

Based on the gross HNU scan, site geology, and visual criteria, a two-sample complement was collected from each split spoon sample. One portion of the two-sample complement was collected for a field headspace screening with the HNU, and the other portion was stored in an ice chest, chilled, and reserved for possible laboratory analysis. The results of the headspace analyses assisted in determining which samples were submitted for laboratory analysis.

The sample exhibiting the maximum headspace reading per boring was selected for laboratory analysis of VOCs according to USEPA Publication SW-846 Method 8240. As an exception, sample SB2-1 was submitted for laboratory analysis although sample SB2-3 exhibited a higher headspace reading. Split spoon recovery of sample SB2-3 was poor, consisting of only a trace amount of wood material. All samples were submitted to NET Midwest, Inc. of Bartlett, Illinois.

The soil boring locations, field and headspace measurements, and selection of samples for laboratory analysis were conducted with the approval of Mike Duet, USEPA oversight contractor. Also in attendance during the soil sampling activity were Paul Steadman, USEPA, and Kirsten Evelkruge, E & E TAT.

3.2 RESULTS AND DISCUSSION

3.2.1 Field Screening

Sample collection information and results of the field and headspace screening analyses are summarized in Table 2. The field scan and headspace data is limited to a narrow, uniform range of low values, and indicates minor levels of VOC

constituents in the soils. There were no solvent odors detected from the augers or from the samples at any boring location. The data does not indicate any area of gross contamination.

3.2.2 Laboratory Analytical Results

The results of the laboratory analyses are summarized in Table 3. Appendix B contains the laboratory analytical reports. The results indicate that the following VOCs were detected in at least one soil sample: 1,3-dichlorobenzene; 1,1-dichloroethane; ethylbenzene; toluene; and xylenes. Of these compounds, 1,1-dichlorobenzene was detected only in sample SB3-3, and toluene was detected only in sample SB4-3.

In general, the concentration levels of the compounds detected were higher in samples collected nearest the Removal Action excavation (SB1, SB2, SB3, and SB7), and were significantly lower at the outer perimeter locations (SB4, SB5, and SB6). No VOCs were detected in samples SB5-5 and SB6-4. Soil boring SB7 was performed at the location of the TL6 test pit, which is approximately 100 feet southwest of the TL5 area. Xylene and ethylbenzene were detected in sample SB7-2, at concentrations of 930 ug/kg and 9.7 ug/kg, respectively. Nondetection of VOCs at the SB6 location indicates, however, that the TL6 area is not likely a point source area of contamination.

3.2.3 Field Observations

The split spoon core samples indicated that landfilled refuse materials were absent at the SB4, SB5, and SB6 locations. At these locations, the upper 5 feet consisted of fill sand or reworked sand, containing trace quantities of small debris. Native soil was encountered at approximately 5 feet, as evident by plant roots, peat, and lack of debris.

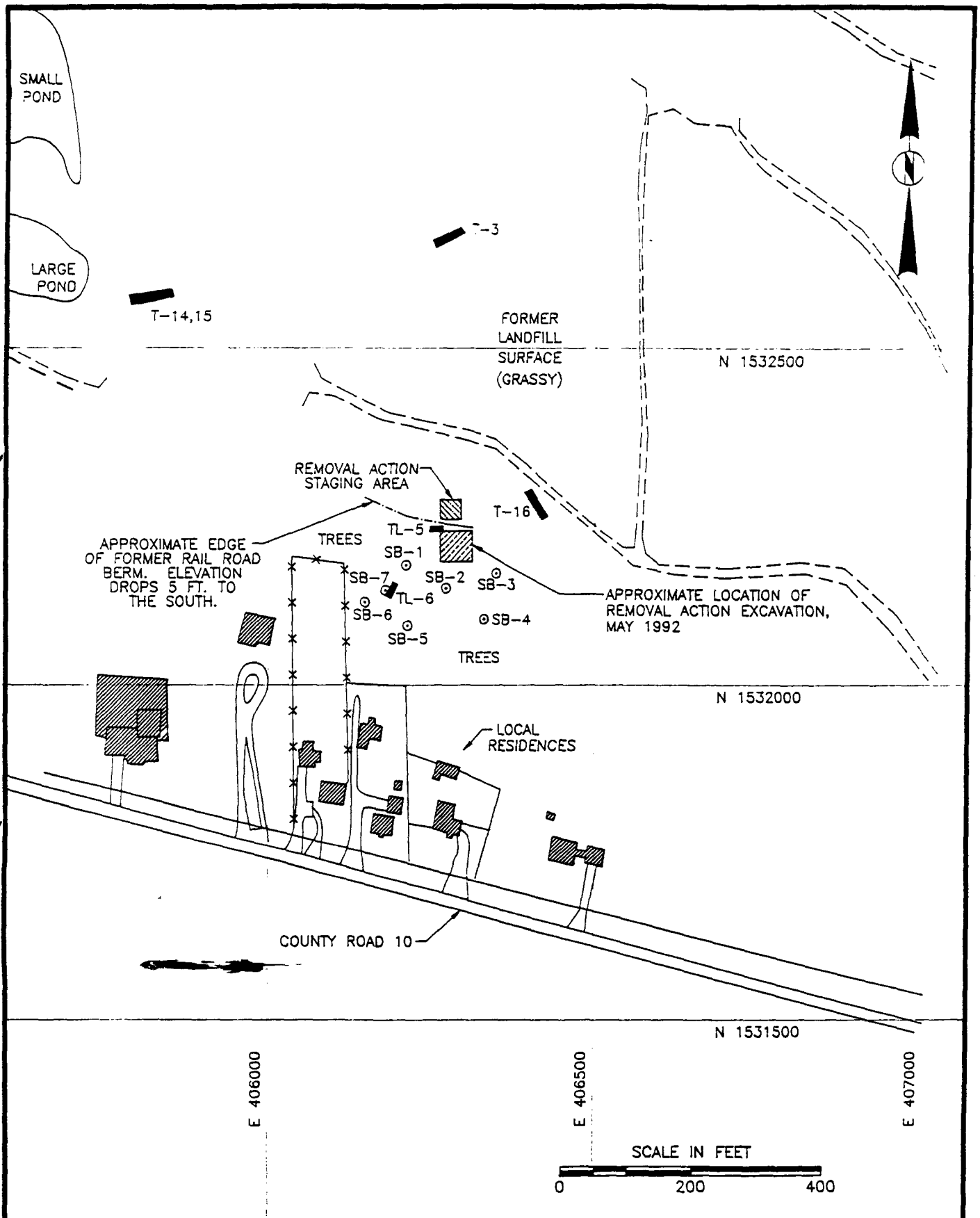
At boring locations SB1, SB2, and SB3, trash/refuse was encountered between the depths of approximately 2 and 6 feet. The refuse material was observed to consist primarily of scrap wood. Minor amounts of miscellaneous trash and debris were encountered in boring SB7 to a depth of approximately 6 feet. Native sand was encountered in the 6 to 8 foot depth interval in soil boring SB7.

At boring locations SB1, SB2, and SB3, groundwater was encountered at depths of approximately 3 feet below ground surface. Groundwater was encountered at the SB4, SB5, SB6, and SB7 at approximately 6 to 7 feet below ground surface. The higher water table elevation encountered at SB1, SB2, and SB3 may be due to ponding within the refuse material. The ground surface elevation was approximately equal at each boring location;

therefore, the difference in water table elevation is probably not a result of topographical variation.

3.3 CONCLUSION

The occurrence and distribution of VOCs detected in the soil sample results indicate that minor, residual soils contamination exists in a limited area generally south of the TL5 test pit area. The fill sand in that area may have come in contact with solvent waste during past drum disposal and grading activities. The analytical data, in conjunction with the southeasterly direction of groundwater flow, indicates that an additional point source area of groundwater contamination is not present in the area covered by the study.



LEGEND

SB-1 ⊙ SOIL BORING LOCATION (MITTELHAUSER, JUNE 1992)

TL-5 ▬ FORMER TEST PIT LOCATION (BY OTHERS)

NO.	DATE	REV. BY	REVISIONS

ENG.	TRB
CHK. BY	TRB
DRAWN	RGW
DATE	6-7-92
SCALE	AS SHOWN
CAD NO.	1044301B
PRJ NO.	1044.3-1

IMMEDIATE REMOVAL ACTION
MAY - JUNE, 1992
CR 10 LANDFILL
ELKHART, IND.

MITTELHAUSER corporation Figure 1

C.R. 10 Landfill
Removal Action
Elkhart, IN

August 1992
1044BK

TABLE 2

SAMPLE COLLECTION INFORMATION AND FIELD SCREENING RESULTS
LIMITED EXTENT OF CONTAMINATION SURVEY
JUNE 4, 1992

SAMPLE	SAMPLE DEPTH (FT)	PID READING (PPM) SCAN	PID READING (PPM) HEADSPACE	REMARKS
SB1-1	0-2	5	8	Sand.
1-2	2-4	-	-	Refuse; no recovery.
1-3	4-6	5	14	Sand, saturated.
* 1-4	6-8	5	16	Sand, saturated.
*SB2-1	0-2	5	11	Sand.
2-2	2-4	-	-	Refuse; no recovery.
2-3	4-6	-	25	Water w/trace refuse.
SB3-1	0-2	3	9	Sand.
3-2	2-4	2	6	Sand w/refuse, sat.
* 3-3	4-6	130	20	Sand/peat.
SB4-1	0-2	5	8	Sand.
4-2	2-4	7	10	Sand w/refuse, sat.
* 4-3	4-6	2	10	Refuse over sand.
SB5-1	0-2	1	11	Sand.
5-2	2-4	3	11	Sand.
5-3	4-6	1	10	Sand.
5-4	6-8	1	11	Sand.
* 5-5	8-10	2	11	Sand, saturated.
SB6-1	0-2	3	11	Sand.
6-2	2-4	3	9	Sand.
6-3	4-6	1	10	Sand.
* 6-4	6-8	1	10	Sand, saturated.
SB7-1	0-2	10	12	Sand w/refuse.
* 7-2	2-4	10	15	Sand w/refuse.
7-3	4-6	7	11	Sand w/refuse.
7-4	6-8	3	11	Sand, saturated.

* Submitted for laboratory analysis.

TABLE 3
CR 10 LANDFILL
EXTENT OF CONTAMINATION SURVEY
SOIL SAMPLE ANALYTICAL RESULTS: 6/4/92

Sample Collection Information and Parameters	SB1-4	SB1-4D	SB2-1	SB3-3	SB4-3	SB5-5	SB6-4	SB7-2		
Date: 6/4/92 Depth (ft)	6-8'	6-8'	0-2'	4-6'	4-6'	8-10'	6-8'	2-4'		
Compound Detected (ug/kg) *Volatile Organics*										
1,1-Dichloroethane	<5U	<5 U	<5 U	110	<5 U	<5 U	<5 U	<5 U		
Toluene	<5U	<5 U	<5 U	<5 U	8.4	<5 U	<5 U	<5 U		
Ethylbenzene	11	23	<5 U	340	34	<5 U	<5 U	97		
Xylenes (total)	54	170	12	1600	37	<5 U	<5 U	930		
1,3-Dichlorobenzene	8.5	10	29	<5 U	<5 U	<5 U	<5 U	<5 U		

4.0 WASTE DISPOSAL DOCUMENTATION

4.1 DISPOSAL OF EMPTY DRUMS

On July 24, 1992, 57 empty drums, plus drum fragments, were transported from the site by American Waste Haulers, Inc., Maywood, Illinois, to American Waste Processing, Ltd., Maywood, Illinois. In accordance with 40 CFR 261.7, these drums (plus fragments) were managed for transport and disposal as non-hazardous, empty drums. A copy of the American Waste Processing Generic Non-hazardous Waste Stream Permit is included in Appendix C. Also included in Appendix C is a copy of the Illinois Uniform Waste Manifest under which the empty drums were transported.

The 57 drums, plus fragments, were those staged on May 22, 1992 in one of two lined roll-off boxes (see Table 1), as previously discussed. During the removal action, these drums were considered to be essentially empty and did not warrant overpacking. However, several of these drums did contain some paint waste solids at the time of recovery and staging. On July 23, 1992, each drum recovered during the removal action (but not overpacked) was inspected by Mittelhauser and American Waste personnel. Those drums found to contain waste materials were cut open, and the contents were manually transferred into a reconditioned 55-gallon 17H DOT drum. The total number of empty drums recovered from the excavation shown in Table 1 and the waste manifest (Appendix C) differ only because American Waste did not count two partial drums in their inventory, although those fragments were transported with the 57 intact drums.

As a result of cleaning the drums on July 23, 1992, five additional 55-gallon drums of paint waste solids, contaminated debris and soil, protective clothing, and plastic sheeting were generated. At that time, the 33-gallon drum containing the asphalt product (Table 1) was also overpacked in one of the reconditioned 55-gallon drums, and one drum containing paint waste solids and semi-solids was placed into an 85-gallon overpack drum. The wastes drummed on July 23, 1992 (5 @ 55 gallons; 1 @ 85 gallons) were placed in the second roll-off box containing the other drummed wastes staged May 22, 1992.

The empty drums were shredded at the American Waste facility and later sold to Cozzi Iron & Metal, Inc., Chicago, Illinois, for smelting and metals recycling. A copy of the American Waste Certificate of Disposal for the destruction of the empty drums is included in Appendix C.

4.2 DISPOSAL OF TANKER WASTE

The liquid solvent waste and contaminated groundwater that was recovered during the removal action and pumped into the tanker was managed for transport and disposal as an F005 listed hazardous waste (40 CFR 261.31). Waste sample analytical results of the 1991 USEPA investigation were used to profile the wastes recovered during the removal action. Tanker waste profile information is included in Appendix D.

The tanker containing the solvent waste remained onsite until August 3, 1992. At that time, a second, empty tanker was delivered to the site, into which the wastes in the original tanker were transferred. The wastes were then transported by Laidlaw to their Reidsville, North Carolina storage facility under Illinois Uniform Hazardous Waste Manifest (Appendix D). The empty tanker remained onsite for later pickup.

The tanker waste was re-manifested at the Laidlaw Reidsville facility, at which time Laidlaw assumed the title of waste generator (see Appendix D). On August 5, 1992, the waste was transported in the tanker to the designated Laidlaw disposal facility [a.k.a. Thermal Oxidation Corporation (TOC)] in Roebuck, South Carolina, where the waste was incinerated. A certificate of waste destruction was not available from Laidlaw at the time of this report, but will be provided as a report addendum as soon as the paperwork is processed.

4.3 DISPOSAL OF DRUMMED WASTE

On August 10 and 11, 1992, Mittelhauser and Laidlaw personnel removed the final inventory of removal action wastes from the site. The drummed wastes and empty reconditioned drums that had been staged in the second roll-off box since May 22, 1992, were inventoried, appropriately labelled, and transferred to a Laidlaw transport vehicle. The six drums generated on July 23, 1992 during the drum cleaning activities described in Section 4.1 were also managed at that time for offsite transport and disposal. In addition to the 14 empty drums that were used during the removal action for temporary storage of solvent waste, two reconditioned empty drums that had not been used for any purpose during the removal were manifested for offsite transport. One final drum of waste was generated on August 11, 1992, consisting of residual waste liquid from the Laidlaw tanker that was emptied August 3, 1992 (Section 4.2).

The inventory of wastes and drums removed from the site on August 11, 1992 is summarized as follows:

Drums Generated during Removal Action; May 1992

9 drums	85-gallon overpack drums; 3 of these drums were overpacked into 110-gallon drums on August 10, 1992
5 drums	55-gallon reconditioned 17H drums

Drums Generated from Cleaning Empties; July 1992

5 drums	55-gallon reconditioned 17H drums
1 drum	85-gallon overpack drum

Empty Drums

14 drums	55-gallon reconditioned 17H drums; last containing paint solvent waste
2 drums	55-gallon reconditioned 17H drums; unused during removal action

Drums Generated by Removing Tanker Residual; August 1992

1 drum	55-gallon reconditioned 17H drum

The 37 drums described above were removed from the site by Laidlaw on August 11, 1992, and transported to the Laidlaw TSD facility in Pecatonica, Illinois. The 16 empty drums were managed as non-hazardous empty drums. The drummed wastes were managed as F005 listed hazardous waste. A copy of the Illinois Uniform Hazardous Waste Manifest under which the drums were transported to the Laidlaw Pecatonica facility is included in Appendix E.

The drummed wastes were re-manifested at the Laidlaw Pecatonica facility on August 14, 1992, at which time Laidlaw assumed the title of waste generator (see Appendix E). The drummed wastes were then transported by J.B. Hunt Transport, Inc. to Marine Shale Processors, Inc., located in Morgan City, Louisiana, for incineration. A copy of the Louisiana Uniform Hazardous Waste Manifest under which the drummed wastes were

transported to Marine Shale is included in Appendix E. The waste shipment to Marine Shale also included wastes unrelated to the County Road 10 Landfill site. At the time of this report, Certificates of Destruction from Marine Shale were not available, but will be provided as a report addendum as soon as the paperwork has been processed.

The remaining 16 empty drums were purchased from Laidlaw by Jakacki Bag and Barrel, Inc., Chicago, Illinois, for reconditioning.

C.R. 10 Landfill
Removal Action
Elkhart, IN

August 1992
1044BR

APPENDIX A

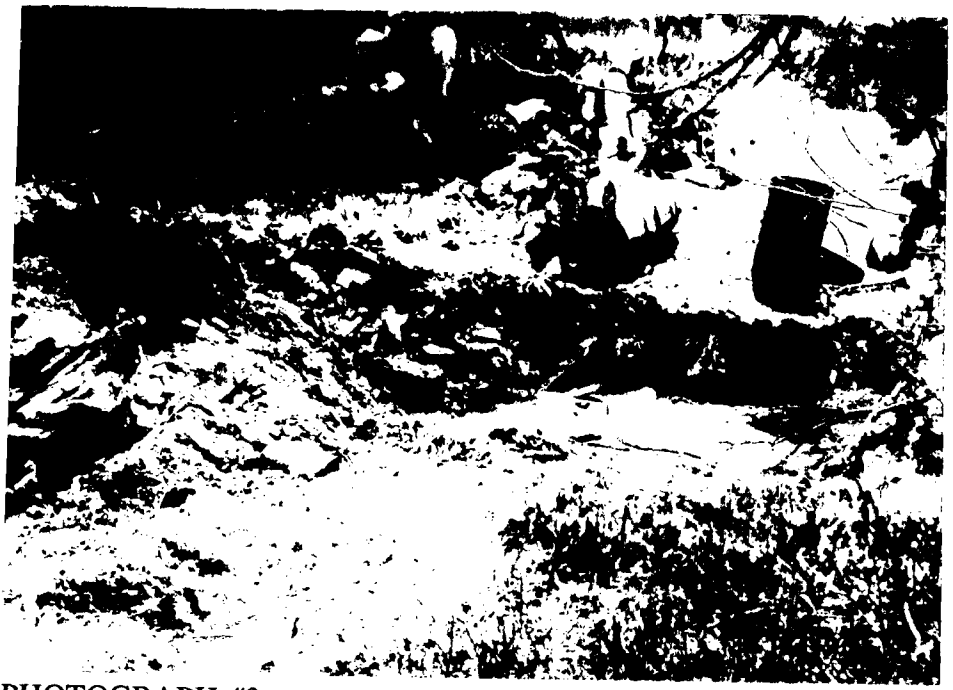
Removal Action Photographic Documentation

PHOTO LOG
C.R. 10 Landfill - 1044.03-01
Elkhart, Indiana
Removal Action

PHOTOGRAPH #1 Name: TRB
Date: 05/19/92 Time: 0935
Direction: NNE
Description: TL5 area prior to removal action. East end of east-west trending TL5 test pit marked by stake, left-of-center.

PHOTOGRAPH #2 Name: TRB
Date: 05/19/92 Time: 1135
Direction: South
Description: Initial removal groundbreaking. Stake marking east end of TL5 test pit seen at far right-of-center.

PHOTO LOG
C.R. 10 Landfill - 1044.03-01
Elkhart, Indiana
Removal Action



PHOTOGRAPH #3 Name: TRB
Date: 05/19/92 Time: 1225
Direction: SSE
Description: View of excavation showing static water level at approximately 2.5 to 3 feet below grade. PID readings above water reach up to 450 ppm. Product leaking from unexposed, buried drum is visible in upper-right corner of excavation. PID readings above product reach up to 4500 ppm.

PHOTOGRAPH #4 Name: TRB
Date: 05/19/92 Time: 1345
Direction: SSE
Description: Partially-submerged drums and floating product visible in south wall of excavation.

PHOTO LOG
C.R. 10 Landfill - 1044.03-01
Elkhart, Indiana
Removal Action

PHOTOGRAPH #5 Name: TRB
Date: 05/20/92 Time: 0800
Direction: South
Description: Recovering product from drum recovered from south wall of excavation.

PHOTOGRAPH #6 Name: TRB
Date: 05/21/92 Time: 0630
Direction: SE
Description: Recovering product from surface of groundwater in excavation.

PHOTO LOG
C.R. 10 Landfill - 1044.03-01
Elkhart, Indiana
Removal Action

PHOTOGRAPH #7 Name: TRB
Date: 05/21/92 Time: 0700
Direction: SE
Description: Vacuum/tanker truck. Recovered product pumped into tanker.

PHOTOGRAPH #8 Name: TRB
Date: 05/21/92 Time: 0725
Direction: SE
Description: Drum removal using rim clamps.

PHOTO LOG
C.R. 10 Landfill - 1044.03-01
Elkhart, Indiana
Removal Action

PHOTOGRAPH #9 Name: TRB
Date: 05/21/92 Time: 0745
Direction: SE
Description: Vacuum pumping product from cavity of excavated drum. Drum contents were removed by in-situ vacuum pumping prior to lifting drum from excavation.

PHOTOGRAPH #10 Name: TRB
Date: 05/21/92 Time: 1220
Direction: SW
Description: Removal of empty drum for temporary staging on plastic sheeting. Laidlaw worker inspects bank of excavation for additional drums.

PHOTO LOG
C.R. 10 Landfill - 1044.03-01
Elkhart, Indiana
Removal Action

PHOTOGRAPH #11 Name: TRB
Date: 05/21/92 Time: 1245
Direction: SW
Description: Drum containing liquid waste being removed from west wall of excavation with rim clamps.

PHOTOGRAPH #12 Name: TRB
Date: 05/22/92 Time: 0810
Direction: N/A
Description: Close-up of empty drum in lined roll-off box showing typical deteriorated condition.

PHOTO LOG
C.R. 10 Landfill - 1044.03-01
Elkhart, Indiana
Removal Action

PHOTOGRAPH #13 Name: TRB
Date: 05/22/92 Time: 0810
Direction: South
Description: View of empty drums in lined roll-off box showing typical deteriorated condition.

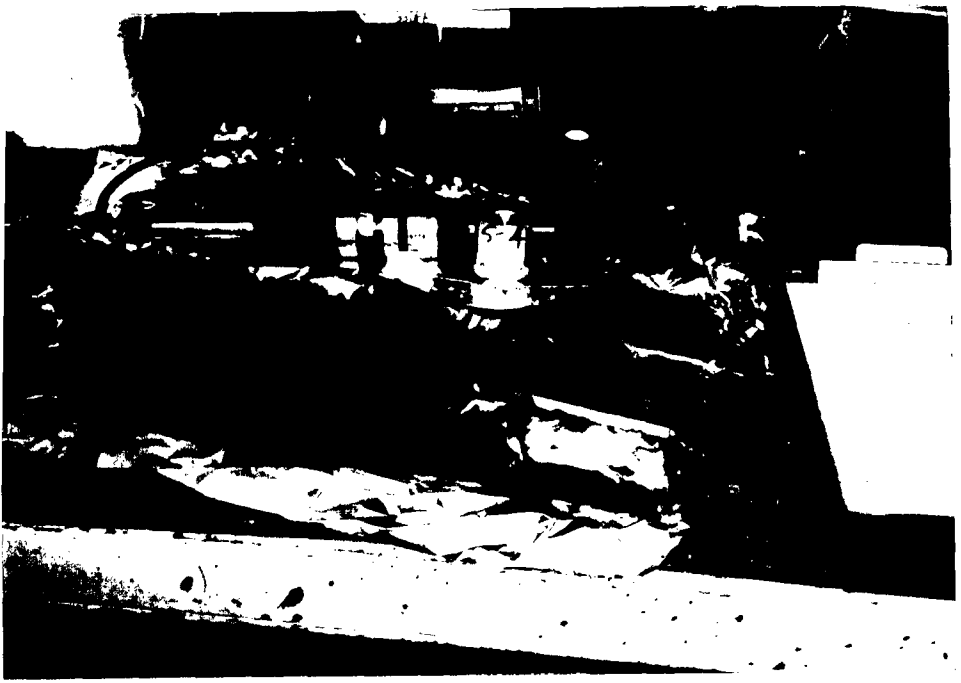
PHOTOGRAPH #14 Name: TRB
Date: 05/22/92 Time: 0935
Direction: South
Description: Backfilled excavation after completion of drum and product recovery activities.

PHOTO LOG
C.R. 10 Landfill - 1044.03-01
Elkhart, Indiana
Removal Action

PHOTOGRAPH #15 Name: TRB
Date: 06/04/92 Time: 0930
Direction: South
Description: Soil boring SB 3 location. Near southeast corner of removal action excavation.

PHOTOGRAPH #16 Name: TRB
Date: 06/04/92 Time: 1050
Direction: NE
Description: Soil boring SB 5 location. USEPA TAT representative in foreground.

PHOTO LOG
C.R. 10 Landfill - 1044.03-01
Elkhart, Indiana
Removal Action



PHOTOGRAPH #17 Name: TRB
Date: 06/04/92 Time: 1110
Direction: N/A
Description: Split spoon sample SB 5-4; 6-8 foot depth interval. Sorted medium sand, typical.

PHOTOGRAPH #18 Name: TRB
Date: 07/24/92 Time: 1000
Direction: South
Description: Empty drums recovered during removal action being loaded onto American Waste Haulers truck for offsite transport and recycling.

PHOTO LOG
C.R. 10 Landfill - 1044.03-01
Elkhart, Indiana
Removal Action
July 1992

PHOTOGRAPH #19 Name: TRB
Date: 07/24/92 Time: 1000
Direction: Southeast
Description: Empty drums recovered during removal action in American Waste Haulers roll-off box after drum emptying activities of 7/23/92.

PHOTOGRAPH #20 Name: TRB
Date: 07/24/92 Time: 1000
Direction: Southeast
Description: Empty drums recovered during removal action in American Waste Haulers roll-off box after drum emptying activities of 7/23/92.

PHOTO LOG
C.R. 10 Landfill - 1044.03-01
Elkhart, Indiana
Removal Action

PHOTOGRAPH #21 Name: TRB
Date: 08/10/92 Time: 1345
Direction: Northeast
Description: Laidlaw personnel unloading removal action drummed wastes staged in lined roll-off box.

PHOTOGRAPH #22 Name: TRB
Date: 08/10/92 Time: 1400
Direction: East
Description: Laidlaw personnel labeling drummed wastes following removal from lined roll-off box.

C.R. 10 Landfill
Removal Action
Elkhart, IN

August 1992
1044BR

APPENDIX B

Chain of Custody Form and Analytical Results
of Soil Samples Collected June 4, 1992

MITTELHAUSER corporation

1240 IROQUOIS DRIVE • SUITE 102 • NAPERVILLE, IL 60563
(708) 369 0201

CHAIN OF CUSTODY RECORD

20506

PAGE 1 OF 1

PROJECT NUMBER: 1044.03-01

PROJECT ~~NUMBER~~: CR 10 Landfill

SAMPLED BY: (PRINTED AND SIGNATURE) Timothy R. Bartlett ~~Timothy R. Bartlett~~

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): VOC 8240	PRESERVATIVE	REMARKS
SB1-4	6/4/92	0850	Soil	Soil boring SB1	1	✓	Iced	Duplicate analysis.
SB3-3	6/4/92	0945	Soil	Soil boring SB3	1	✓	Iced	
SB4-3	6/4/92	1035	Soil	Soil boring SB4	1	✓	Iced	
SB5-5	6/4/92	1120	Soil	Soil boring SB5	1	✓	Iced	
SB6-4	6/4/92	1150	Soil	Soil boring SB6	1	✓	Iced	
SB7-2	6/4/92	1340	Soil	Soil boring SB7	1	✓	Iced	
~~SB2-2~~	6/4/92							
SB2-1	6/4/92	0905	Soil	Soil boring SB2	1	✓	Iced	

RELINQUISHED BY: (SIGNATURE) ~~Timothy R. Bartlett~~	DATE 6/5/92	TIME	RECEIVED BY: (SIGNATURE) Mary Miller	TIME 11:30
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	

TOTAL NO. OF SAMPLES (THIS SHIPMENT): 7
TOTAL NO. OF CONTAINERS (THIS SHIPMENT): 7
LABORATORY: NET Midwest
LABORATORY CONTACT: Roline Milne
LABORATORY PHONE NUMBER: 815 874-2171
SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES ( ) NO

DISTRIBUTION: WHITE, MITTELHAUSER CORPORATION
CANARY, LABORATORY
PINK, CLIENT
GOLD, PROJECT FILE

REMARKS: Split sample SB1-4 for duplicate analysis.

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Rockford Division
3548 35th Street
Rockford, IL 61109
Tel: (815) 874-2171
Fax: (815) 874-5622

ANALYTICAL REPORT

Ms. Michelle Susic
MITTELHAUSER CORPORATION
1240 Iroquois Dr., Ste.102
Naperville, IL 60563

06/22/1992

Job No: 92.1839
Sample No: 104809

SAMPLE DESCRIPTION: SB1-4, Grab Soil
104.03-01 CR 10 Landfill

Date Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
VOLATILE COMPOUNDS - 8240				
Acrolein	<500.	ug/kg	8240 (1)	06/18/1992
Acrylonitrile	<50.	ug/kg	8240 (1)	06/18/1992
Benzene	<5.0	ug/kg	8240 (1)	06/18/1992
Bromodichloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
Bromoform	<5.0	ug/kg	8240 (1)	06/18/1992
Bromomethane	<50.	ug/kg	8240 (1)	06/18/1992
Carbon tetrachloride	<5.0	ug/kg	8240 (1)	06/18/1992
Chlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
Chloroethane	<50.	ug/kg	8240 (1)	06/18/1992
2-Chloroethyl vinyl ether	<10.	ug/kg	8240 (1)	06/18/1992
Chloroform	<5.0	ug/kg	8240 (1)	06/18/1992
Chloromethane	<50.	ug/kg	8240 (1)	06/18/1992
Dibromochloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,3-Dichlorobenzene	8.5	ug/kg	8240 (1)	06/18/1992
1,4-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloropropane	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992

Brian Wanner, Manager
Rockford Division

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ANALYTICAL REPORT

Ms. Michelle Susic
MITTELHAUSER CORPORATION
1240 Iroquois Dr., Ste.102
Naperville, IL 60563

06/22/1992

Job No: 92.1839
Sample No: 104809

SAMPLE DESCRIPTION: SB1-4, Grab Soil
104.03-01 CR 10 Landfill

Date Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Ethylbenzene	11.	ug/kg	8240 (1)	06/18/1992
Methylene chloride	<25.	ug/kg	8240 (1)	06/18/1992
Methyl ethyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
Methyl isobutyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2,2-Tetrachloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Tetrachloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Toluene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,1-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Trichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Vinyl chloride	<50.	ug/kg	8240 (1)	06/18/1992
lenes	54.	ug/kg	8240 (1)	06/18/1992

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ANALYTICAL REPORT

Ms. Michelle Susic
MITTELHAUSER CORPORATION
1240 Iroquois Dr., Ste.102
Naperville, IL 60563

06/22/1992

Job No: 92.1839
Sample No: 105325

SAMPLE DESCRIPTION: SB1-4 DUP, Grab Soil
104.03-01 CR 10 Landfill

Date Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Solids, Total	62.6	%	160.3 (3)	06/08/1992

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ANALYTICAL REPORT

Ms. Michelle Susic
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1240 Iroquois Dr., Ste.102
Naperville, IL 60563

06/22/1992

Job No: 92.1839
Sample No: 105325

SAMPLE DESCRIPTION: SB1-4 DUP, Grab Soil
104.03-01 CR 10 Landfill
Date Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
VOLATILE COMPOUNDS - 8240				
Acrolein	<500.	ug/kg	8240 (1)	06/18/1992
Acrylonitrile	<50.	ug/kg	8240 (1)	06/18/1992
Benzene	<5.0	ug/kg	8240 (1)	06/18/1992
Bromodichloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
Bromoform	<5.0	ug/kg	8240 (1)	06/18/1992
Bromomethane	<50.	ug/kg	8240 (1)	06/18/1992
Carbon tetrachloride	<5.0	ug/kg	8240 (1)	06/18/1992
Chlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
Chloroethane	<50.	ug/kg	8240 (1)	06/18/1992
Chloroethyl vinyl ether	<10.	ug/kg	8240 (1)	06/18/1992
Chloroform	<5.0	ug/kg	8240 (1)	06/18/1992
Chloromethane	<50.	ug/kg	8240 (1)	06/18/1992
Dibromochloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,3-Dichlorobenzene	10.	ug/kg	8240 (1)	06/18/1992
1,4-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloropropane	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992

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ANALYTICAL REPORT

Ms. Michelle Susic
MITTELHAUSER CORPORATION
1240 Iroquois Dr., Ste.102
Naperville, IL 60563

06/22/1992

Job No: 92.1839
Sample No: 105325

SAMPLE DESCRIPTION: SB1-4 DUP, Grab Soil
104.03-01 CR 10 Landfill

[illegible]ce Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Ethylbenzene	23.	ug/kg	8240 (1)	06/18/1992
Methylene chloride	<25.	ug/kg	8240 (1)	06/18/1992
Methyl ethyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
Methyl isobutyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2,2-Tetrachloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Tetrachloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Toluene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,1-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Trichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Vinyl chloride	<50.	ug/kg	8240 (1)	06/18/1992
[illegible]enes	170.	ug/kg	8240 (1)	06/18/1992

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ANALYTICAL REPORT

Ms. Michelle Susic
MITTELHAUSER CORPORATION
1240 Iroquois Dr., Ste.102
Naperville, IL 60563

06/22/1992

Job No: 92.1839
Sample No: 104807

SAMPLE DESCRIPTION: SB2-1, Grab Soil
104.03-01 CR 10 Landfill

Date Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Solids, Total	94.4	%	160.3 (3)	06/08/1992

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ANALYTICAL REPORT

Ms. Michelle Susic
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1240 Iroquois Dr., Ste.102
Naperville, IL 60563

06/22/1992

Job No: 92.1839
Sample No: 104807

SAMPLE DESCRIPTION: SB2-1, Grab Soil
104.03-01 CR 10 Landfill

Date Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
VOLATILE COMPOUNDS - 8240				
Acrolein	<500.	ug/kg	8240 (1)	06/18/1992
Acrylonitrile	<50.	ug/kg	8240 (1)	06/18/1992
Benzene	<5.0	ug/kg	8240 (1)	06/18/1992
Bromodichloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
Bromoform	<5.0	ug/kg	8240 (1)	06/18/1992
Bromomethane	<50.	ug/kg	8240 (1)	06/18/1992
Carbon tetrachloride	<5.0	ug/kg	8240 (1)	06/18/1992
Chlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
Chloroethane	<50.	ug/kg	8240 (1)	06/18/1992
2-Chloroethyl vinyl ether	<10.	ug/kg	8240 (1)	06/18/1992
Chloroform	<5.0	ug/kg	8240 (1)	06/18/1992
Chloromethane	<50.	ug/kg	8240 (1)	06/18/1992
Dibromochloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,3-Dichlorobenzene	29.	ug/kg	8240 (1)	06/18/1992
1,4-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloropropane	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992

Brian Wanner, Manager
Rockford Division

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ANALYTICAL REPORT

Ms. Michelle Susic
MITTELHAUSER CORPORATION
1240 Iroquois Dr., Ste.102
Naperville, IL 60563

06/22/1992

Job No: 92.1839
Sample No: 104807

SAMPLE DESCRIPTION: SB2-1, Grab Soil
104.03-01 CR 10 Landfill

Date Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Ethylbenzene	<5.0	ug/kg	8240 (1)	06/18/1992
Methylene chloride	<25.	ug/kg	8240 (1)	06/18/1992
Methyl ethyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
Methyl isobutyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2,2-Tetrachloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Tetrachloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Toluene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,1-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Trichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Vinyl chloride	<5.0	ug/kg	8240 (1)	06/18/1992
Xylenes	12.	ug/kg	8240 (1)	06/18/1992

Brian Wanner, Manager
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ANALYTICAL REPORT

Ms. Michelle Susic
MITTELHAUSER CORPORATION
1240 Iroquois Dr., Ste.102
Naperville, IL 60563

06/22/1992

Job No: 92.1839
Sample No: 104802

SAMPLE DESCRIPTION: SB3-3, Grab Soil
104.03-01 CR 10 Landfill

Date Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Solids, Total	22.6	%	160.3 (3)	06/08/1992

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ANALYTICAL REPORT

Ms. Michelle Susic
MITTELHAUSER CORPORATION
1240 Iroquois Dr., Ste.102
Naperville, IL 60563

06/22/1992

Job No: 92.1839
Sample No: 104802

SAMPLE DESCRIPTION: SB3-3, Grab Soil
104.03-01 CR 10 Landfill
Date Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
VOLATILE COMPOUNDS - 8240				
Acrolein	<500.	ug/kg	8240 (1)	06/18/1992
Acrylonitrile	<50.	ug/kg	8240 (1)	06/18/1992
Benzene	<5.0	ug/kg	8240 (1)	06/18/1992
Bromodichloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
Bromoform	<5.0	ug/kg	8240 (1)	06/18/1992
Bromomethane	<50.	ug/kg	8240 (1)	06/18/1992
Carbon tetrachloride	<5.0	ug/kg	8240 (1)	06/18/1992
Chlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
Chloroethane	<50.	ug/kg	8240 (1)	06/18/1992
2-Chloroethyl vinyl ether	<10.	ug/kg	8240 (1)	06/18/1992
Chloroform	<5.0	ug/kg	8240 (1)	06/18/1992
Chloromethane	<50.	ug/kg	8240 (1)	06/18/1992
Dibromochloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,3-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,4-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethane	110.	ug/kg	8240 (1)	06/18/1992
1,2-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloropropane	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992

Brian Wanner, Manager
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ANALYTICAL REPORT

Ms. Michelle Susic
MITTELHAUSER CORPORATION
1240 Iroquois Dr., Ste.102
Naperville, IL 60563

06/22/1992

Job No: 92.1839
Sample No: 104802

SAMPLE DESCRIPTION: SB3-3, Grab Soil
104.03-01 CR 10 Landfill

Date Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Ethylbenzene	340.	ug/kg	8240 (1)	06/18/1992
Methylene chloride	<25.	ug/kg	8240 (1)	06/18/1992
Methyl ethyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
Methyl isobutyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2,2-Tetrachloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Tetrachloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Toluene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,1-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Trichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Vinyl chloride	<50.	ug/kg	8240 (1)	06/18/1992
Xylenes	1,600.	ug/kg	8240 (1)	06/18/1992

Brian Wanner, Manager
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ANALYTICAL REPORT

Ms. Michelle Susic
MITTELHAUSER CORPORATION
1240 Iroquois Dr., Ste.102
Naperville, IL 60563

06/22/1992

Job No: 92.1839
Sample No: 104803

SAMPLE DESCRIPTION: SB4-3, Grab Soil
104.03-01 CR 10 Landfill

Date Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Solids, Total	72.0	%	160.3 (3)	06/08/1992

Brian Wanner, Manager
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ANALYTICAL REPORT

Ms. Michelle Susic
MITTELHAUSER CORPORATION
1240 Iroquois Dr., Ste.102
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06/22/1992

Job No: 92.1839
Sample No: 104803

SAMPLE DESCRIPTION: SB4-3, Grab Soil
104.03-01 CR 10 Landfill

Date Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
VOLATILE COMPOUNDS - 8240				
Acrolein	<500.	ug/kg	8240 (1)	06/18/1992
Acrylonitrile	<50.	ug/kg	8240 (1)	06/18/1992
Benzene	<5.0	ug/kg	8240 (1)	06/18/1992
Bromodichloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
Bromoform	<5.0	ug/kg	8240 (1)	06/18/1992
Bromomethane	<50.	ug/kg	8240 (1)	06/18/1992
Carbon tetrachloride	<5.0	ug/kg	8240 (1)	06/18/1992
Chlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
Chloroethane	<50.	ug/kg	8240 (1)	06/18/1992
2-Chloroethyl vinyl ether	<10.	ug/kg	8240 (1)	06/18/1992
Chloroform	<5.0	ug/kg	8240 (1)	06/18/1992
Chloromethane	<50.	ug/kg	8240 (1)	06/18/1992
Dibromochloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,3-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,4-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloropropane	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992

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ANALYTICAL REPORT

Ms. Michelle Susic
MITTELHAUSER CORPORATION
1240 Iroquois Dr., Ste.102
Naperville, IL 60563

06/22/1992

Job No: 92.1839
Sample No: 104803

SAMPLE DESCRIPTION: SB4-3, Grab Soil
104.03-01 CR 10 Landfill

Date Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Ethylbenzene	34.	ug/kg	8240 (1)	06/18/1992
Methylene chloride	<25.	ug/kg	8240 (1)	06/18/1992
Methyl ethyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
Methyl isobutyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2,2-Tetrachloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Tetrachloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Toluene	8.4	ug/kg	8240 (1)	06/18/1992
1,1,1-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Trichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Vinyl chloride	<50.	ug/kg	8240 (1)	06/18/1992
Xylenes	37.	ug/kg	8240 (1)	06/18/1992

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ANALYTICAL REPORT

Ms. Michelle Susic
MITTELHAUSER CORPORATION
1240 Iroquois Dr., Ste.102
Naperville, IL 60563

06/22/1992

Job No: 92.1839
Sample No: 104804

SAMPLE DESCRIPTION: SB5-5, Grab Soil
104.03-01 CR 10 Landfill
Date Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Solids, Total	84.7	%	160.3 (3)	06/08/1992

Brian Wanner, Manager
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ANALYTICAL REPORT

Ms. Michelle Susic
MITTELHAUSER CORPORATION
1240 Iroquois Dr., Ste.102
Naperville, IL 60563

06/22/1992

Job No: 92.1839
Sample No: 104804

SAMPLE DESCRIPTION: SB5-5, Grab Soil
104.03-01 CR 10 Landfill
Date Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
VOLATILE COMPOUNDS - 8240				
Acrolein	<500.	ug/kg	8240 (1)	06/18/1992
Acrylonitrile	<50.	ug/kg	8240 (1)	06/18/1992
Benzene	<5.0	ug/kg	8240 (1)	06/18/1992
Bromodichloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
Bromoform	<5.0	ug/kg	8240 (1)	06/18/1992
Bromomethane	<50.	ug/kg	8240 (1)	06/18/1992
Carbon tetrachloride	<5.0	ug/kg	8240 (1)	06/18/1992
Chlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
Chloroethane	<50.	ug/kg	8240 (1)	06/18/1992
Chloroethyl vinyl ether	<10.	ug/kg	8240 (1)	06/18/1992
Chloroform	<5.0	ug/kg	8240 (1)	06/18/1992
Chloromethane	<50.	ug/kg	8240 (1)	06/18/1992
Dibromochloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,3-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,4-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloropropane	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992

Brian Wanner, Manager
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ANALYTICAL REPORT

Ms. Michelle Susic
MITTELHAUSER CORPORATION
1240 Iroquois Dr., Ste.102
Naperville, IL 60563

06/22/1992

Job No: 92.1839
Sample No: 104804

SAMPLE DESCRIPTION: SB5-5, Grab Soil
104.03-01 CR 10 Landfill

Date Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Ethylbenzene	<5.0	ug/kg	8240 (1)	06/18/1992
Methylene chloride	<25.	ug/kg	8240 (1)	06/18/1992
Methyl ethyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
Methyl isobutyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2,2-Tetrachloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Tetrachloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Toluene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,1-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Trichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Vinyl chloride	<50.	ug/kg	8240 (1)	06/18/1992
Xylenes	<5.0	ug/kg	8240 (1)	06/18/1992

Brian Wanner, Manager
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ANALYTICAL REPORT

Ms. Michelle Susic
MITTELHAUSER CORPORATION
1240 Iroquois Dr., Ste.102
Naperville, IL 60563

06/22/1992

Job No: 92.1839
Sample No: 104805

SAMPLE DESCRIPTION: SB6-4, Grab Soil
104.03-01 CR 10 Landfill
Date Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Solids, Total	88.8	%	160.3 (3)	06/08/1992

Brian Wanner, Manager
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OCEAN GROUP

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ANALYTICAL REPORT

Ms. Michelle Susic
MITTELHAUSER CORPORATION
1240 Iroquois Dr., Ste.102
Naperville, IL 60563

06/22/1992

Job No: 92.1839
Sample No: 104805

SAMPLE DESCRIPTION: SB6-4, Grab Soil
104.03-01 CR 10 Landfill

Date Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
VOLATILE COMPOUNDS - 8240				
Acrolein	<500.	ug/kg	8240 (1)	06/18/1992
Acrylonitrile	<50.	ug/kg	8240 (1)	06/18/1992
Benzene	<5.0	ug/kg	8240 (1)	06/18/1992
Bromodichloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
Bromoform	<5.0	ug/kg	8240 (1)	06/18/1992
Bromomethane	<50.	ug/kg	8240 (1)	06/18/1992
Carbon tetrachloride	<5.0	ug/kg	8240 (1)	06/18/1992
Chlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
Chloroethane	<50.	ug/kg	8240 (1)	06/18/1992
2-Chloroethyl vinyl ether	<10.	ug/kg	8240 (1)	06/18/1992
Chloroform	<5.0	ug/kg	8240 (1)	06/18/1992
Chloromethane	<50.	ug/kg	8240 (1)	06/18/1992
Dibromochloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,3-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,4-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloropropane	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992

Brian Wanner, Manager
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ANALYTICAL REPORT

Ms. Michelle Susic
MITTELHAUSER CORPORATION
1240 Iroquois Dr., Ste.102
Naperville, IL 60563

06/22/1992

Job No: 92.1839
Sample No: 104806

SAMPLE DESCRIPTION: SB7-2, Grab Soil
104.03-01 CR 10 Landfill

Date Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Solids, Total	85.0	%	160.3 (3)	06/08/1992

Brian Wanner, Manager
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ANALYTICAL REPORT

Ms. Michelle Susic
MITTELHAUSER CORPORATION
1240 Iroquois Dr., Ste.102
Naperville, IL 60563

06/22/1992

Job No: 92.1839
Sample No: 104805

SAMPLE DESCRIPTION: SB6-4, Grab Soil
104.03-01 CR 10 Landfill

Date Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Ethylbenzene	<5.0	ug/kg	8240 (1)	06/18/1992
Methylene chloride	<25.	ug/kg	8240 (1)	06/18/1992
Methyl ethyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
Methyl isobutyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2,2-Tetrachloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Tetrachloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Toluene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,1-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Trichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Vinyl chloride	<50.	ug/kg	8240 (1)	06/18/1992
Xylenes	<5.0	ug/kg	8240 (1)	06/18/1992

Brian Wanner, Manager
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ANALYTICAL REPORT

Ms. Michelle Susic
MITTELHAUSER CORPORATION
1240 Iroquois Dr., Ste.102
Naperville, IL 60563

06/22/1992

Job No: 92.1839
Sample No: 104806

SAMPLE DESCRIPTION: SB7-2, Grab Soil
104.03-01 CR 10 Landfill

Date Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
VOLATILE COMPOUNDS - 8240				
Acrolein	<500.	ug/kg	8240 (1)	06/18/1992
Acrylonitrile	<50.	ug/kg	8240 (1)	06/18/1992
Benzene	<5.0	ug/kg	8240 (1)	06/18/1992
Bromodichloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
Bromoform	<5.0	ug/kg	8240 (1)	06/18/1992
Bromomethane	<50.	ug/kg	8240 (1)	06/18/1992
Carbon tetrachloride	<5.0	ug/kg	8240 (1)	06/18/1992
Chlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
Chloroethane	<50.	ug/kg	8240 (1)	06/18/1992
2-Chloroethyl vinyl ether	<10.	ug/kg	8240 (1)	06/18/1992
Chloroform	<5.0	ug/kg	8240 (1)	06/18/1992
Chloromethane	<50.	ug/kg	8240 (1)	06/18/1992
Dibromochloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,3-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,4-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloropropane	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992

Brian Wanner, Manager
Rockford Division

OCEAN GROUP

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Rockford Division
3548 35th Street
Rockford, IL 61109
Tel: (815) 874-2171
Fax: (815) 874-5622

ANALYTICAL REPORT

Ms. Michelle Susic
MITTELHAUSER CORPORATION
1240 Iroquois Dr., Ste.102
Naperville, IL 60563

06/22/1992

Job No: 92.1839
Sample No: 104806

SAMPLE DESCRIPTION: SB7-2, Grab Soil
104.03-01 CR 10 Landfill

Date Taken: 06/04/1992
IEPA Cert. No.100220

Date Received: 06/05/1992
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Ethylbenzene	9.7	ug/kg	8240 (1)	06/18/1992
Methylene chloride	<25.	ug/kg	8240 (1)	06/18/1992
Methyl ethyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
Methyl isobutyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2,2-Tetrachloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Tetrachloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Toluene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,1-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Trichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Vinyl chloride	<50.	ug/kg	8240 (1)	06/18/1992
Xylenes	930.	ug/kg	8240 (1)	06/18/1992

Brian Wanner, Manager
Rockford Division

C.R. 10 Landfill
Removal Action
Elkhart, IN

August 1992
1044BR

APPENDIX C

Transport and Disposal Documentation for Empty Drums
Recovered from Excavation During Removal Action

AMERICAN WASTE PROCESSING, LTD.

P.O. Box 306
Maywood, Illinois 60153
(312) 681-3999

NON-HAZARDOUS PERMIT

REFERENCE NO. 900157 DATE ENTERED 7-16-92

WASTE STREAM NO. 000157

THIS APPLICATION IS A (CHECK ONE) X NEW APPLICATION ___ RENEWAL

THIS APPLICATION IS FOR WASTE (CHECK ONE) ___ STORAGE X TREATMENT

SITE

AMERICAN WASTE PROCESSING, LTD.

2010 WEST MADISON STREET

COOK/MAYWOOD, IL 60153

(312) 681-3999

SITE CONTACT NAME JOSEPH A. STROSNIK

IEPA SITE CODE 0 3 1 1 8 3 0 0 0 2

DISPOSAL METHOD 28

TREATMENT 21

STORAGE METHOD 01

THE UNDERSIGNED HEREBY MAKES A SUPPLEMENTAL PERMIT FOR THE STORAGE OR TREATMENT OF THIS WASTE STREAM AS STATED ABOVE.

SIGNATURE _____ DATE 7-16-92

(OWNER/AUTHORIZED AGENT/OPERATOR)

WASTE GENERATOR INFORMATION

PLANT ADDRESS

WHERE COUNTY ROAD 10 LANDFILL

ADDRESS COUNTY ROAD 10 & NAPPANEE STREET

/ ELKHART / IND / 46514

COUNTY / COMMUNITY / STATE / ZIP

MAILING ADDRESS

NAME HIMCO WASTE - AWAY SERVICE, INC.

ADDRESS P.O. BOX 1268

ELKHART / ELKHART / IN / A6515-1268

COUNTY / COMMUNITY / STATE / ZIP

GENERATOR IEPA CODE 9 1 8 0 3 9 7 7 2 1

GENERATOR CONTACT NAME TIM BARTLET (MITTELHAUSER) TELEPHONE (708) 369-0201

PROCESS/OPERATION NAMES SITE CLEAN-UP

PROCESS DESCRIPTION SITE CLEAN-UP

GENERIC WASTE NAME "RCRA" EMPTY DRUMS PREVIOUSLY CONTAINING PAINT PRODUCTS

WASTE CHARACTERISTICS

THIS WASTE IS (CHECK ONE) ___ HAZARDOUS X NON-HAZARDOUS AS DEFINED BY U.S.E.P.A. IN THE RESOURCE CONSERVATION AND RECOVERY ACT, AND REGULATIONS ADOPTED THEREUNDER, AND THE ILLINOIS POLLUTION CONTROL BOARD IN TITLE 35 - SUBTITLE G, PART 721.

USEPA HAZARDOUS WASTE NO(S). ____, ____, ____, ____

TOTAL ANNUAL WASTE VOLUME 50 CONTAINERS WASTE CLASS ____

TRANSPORT FREQUENCY 1 VOLUME UNITS 2 WASTE PHASE 3

1 - ONE TIME
2 - DAILY
3 - WEEKLY
4 - BI-WEEKLY
5 - MONTHLY
6 - BI-MONTHLY
7 - QUARTERLY
8 - SIMI-ANNUALLY

1 - CUBIC YARDS
2 - GALLONS

1 - SOLID
2 - SEMI-SOLID
3 - LIQUID
4 - GAS
5 - POWDERS

COMPONENT NAME	PERCENT
RCRA EMPTY CONTAINERS	100.00
	___.__
	___.__
	___.__

FLASH POINT _____ PERCENT ACIDITY _____ PERCENT ALKALINITY _____

PH _____ TOTAL SOLIDS _____

SOLID WASTE - FIRE HAZARD ___ CORROSIVE ___ REACTIVE ___

GENERATOR - ANSWER ALL QUESTIONS, SIGN, DATE AND RETURN TO AWP

DOES THIS WASTE CONTAIN ANY EXPLOSIVES, HERBICIDES, INSECTICIDES, PATHOGENS, PCBS, PESTICIDES, BIOLOGICAL OR RADIOACTIVE MATERIAL? YES ____ NO X

IF YES EXPLAIN _____

DOT

SHIPPING DESCRIPTION NON-HAZ "RCRA" EMPTY CONTAINERS HAZARD CLASS NON-HAZ

UN OR NA NO. ____ EPA HW NO. ____

QUANTITY OF WASTE PER DELIVERY 50 DRUMS METHOD OF SHIPMENT VAN TRAILER

DRUMS _____ TANKER _____ ROLL-OFF BOX _____

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND ABILITY THE INFORMATION PROVIDED IS COMPLETE, ACCURATE AND TRUE.

NAME (PLEASE PRINT) _____ DATE _____

SIGNATURE _____ TITLE _____

Illinois Environmental Protection Agency • P.O. Box 19276, Springfield, IL 62794-9276

GENERIC WASTE STREAM PERMIT ATTACHMENT

SITE CODE: 0311830002 GENERIC W/S PERMIT NUMBER: 000157

SITE NAME: AMERICAN WASTE PROCESSING LTD SUP/OP: PERMIT NUMBER: 1987216SP

DATE RECEIVED: 09/02/86 APPROVAL DATE: 11/18/86
EXPIRATION DATE: 10/24/93

GENERIC WASTE CODE: 0069

GENERIC WASTE NAME: SPENT PRODUCTS

WASTE CLASSIFICATION: NON-HAZARDOUS NOT SUBJECT TO FEE

IEPA NON-HAZARD WASTE NUMBER(S): 0020

TREATMENT CODE(S): S01

FLASH POINT (MIN.): 140F PH (MIN): 2.5 PH (MAX): 12.5

---------- MAJOR WASTE COMPONENTS ----------

CODE	NAME	MAX LIMITS
0212	PALLETS	0100 % VOL
0213	TIRES	0100 % VOL
0214	RCRA "EMPTY" CONTAINERS	0100 % VOL

DISPOSAL METHOD: WASTE TREATMENT

TREATMENT METHOD: OTHER (SPECIFIED IN ATTACHMENT TO APPLICATION)

WRA

STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY — DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

State Form LPC 62 8/81 IL532-0610

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 9-88) Form Approved. OMB No. 2050-0039. Expires 9-30-92

UNIFORM ~~HAZARDOUS~~ WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address — Location If Different

COUNTY ROAD 10 LANDFILL
COUNTY ROAD & NAPPANEE STREET ELKHART, IND 46514

4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* (219)

A. Illinois Manifest Document Number: IL 3904514 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 9 I 8 0 3 9 7 7 2 1

5. Transporter 1 Company Name: AMERICAN WASTE HAULERS, INC.

6. US EPA ID Number:

C. Illinois Transporter's ID: 0 0 5 9

D. (708) 681-3999 Transporter's Phone

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. Illinois Transporter's ID:

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address

AMERICAN WASTE PROCESSING, LTD.
2010 WEST MADISON STREET
MAYWOOD, ILLINOIS 60153

10. US EPA ID Number:

G. Illinois Facility's ID: 0 3 1 1 8 3 0 0 0 2

H. Facility's Phone: (708) 681-3999

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. NON-HAZARDOUS "RCRA" EMPTY CONTAINERS	057	DM	00000	1	EPA HW Number: X X GLASS A; Authorization Number: 000157
b.					EPA HW Number: X X; Authorization Number:
c.					EPA HW Number: X X; Authorization Number:
d.					EPA HW Number: X X; Authorization Number:

J. Additional Description for Materials Listed Above: 900157/000157

K. Handling Codes for Wastes Listed Above in Item #14: G = Gallons Y = Cubic Yards

15. Special Handling Instructions and Additional Information

IN CASE OF EMERGENCY NOTIFY (708)681-3999

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: KEN DIMES — Signature — Date: Month Day Year: 07 23 92

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: H.P. MULLIGAN — Signature — Date: Month Day Year: 07 23 92

TRANSPORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

FACILITY

20. Facility Owner or Operator: Certification of receipt of ~~hazardous~~ materials covered by this manifest except as noted in item 19.

Printed/Typed Name: J. A. STROSNIK — Signature — Date: Month Day Year: 07 23 92

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1988, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-7860 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

AMERICAN WASTE HAULERS, INC.

P.O. Box 306
Maywood, Illinois 60153
(708) 681-3999
Fax: (708) 681-5583

CERTIFICATE OF DISPOSAL

THIS CERTIFICATE IS TO VERIFY THAT THE DRUMS PICKED-UP AT

COUNTY ROAD 10 LANDFILL

COUNTY ROAD 10 & NAPPANEE ROAD

ELKHART, INDIANA 46514

HAS BEEN PROPERLY SHREDDED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATION.

NUMBER OF DRUMS: FIFTY-SEVEN (57)

FACILITY NAME: AMERICAN WASTE PROCESSING, LTD.

ADDRESS: 2010 WEST MADISON STREET

MAYWOOD, ILLINOIS 60153

SIGNED: _____

JOSEPH A. STROSNIK

C.R. 10 Landfill
Removal Action
Elkhart, IN

August 1992
1044BR

APPENDIX D

Transport and Disposal Documentation for Liquid Solvent Waste in Tanker

STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HARDOUS AND SPECIAL WASTE

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH. EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039, Expires 9-30-92

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IN9180397721 — Manifest Document No.: 80392

2. Page 1. of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois Law.

3. Generator's Name and Mailing Address: HIMCO WASTE AWAY SERVICE, INC., P. O. 1268, ELKHART, IN 46515-1268

Location If Different: COUNTY ROAD 10 LANDFILL

A. Illinois Manifest Document Number: IL 4655339 — Fee Paid, If Applicable

B. Illinois Generator's ID: 7118039772

4. * 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS *: 1-800-535-5053 (567)

5. Transporter 1 Company Name: LAIDLAW ENV SVCS OF ILLINOIS, INC. — 6. US EPA ID Number: ILD980502744

C. Illinois Transporter's ID: 0915

D. (815) 239-2377 Transporter's Phone

7. Transporter 2 Company Name — 8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: LAIDLAW ENVIRONMENTAL SERVICES (TS), INC., ROUTE 11, P. O. BOX 3, REIDSVILLE, NC 27320 — 10. US EPA ID Number: NCD000648451

G. Illinois Facility's ID: 9317197400

H. Facility's Phone: (919) 342-5106

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ WASTE FLAMMABLE LIQUID, N.O.S. (TOLUENE, BENEZENE), FLAMMABLE LIQUID, UN 1993 (D001,F005)	001	T	001420	G	EPA HW Number: XXD001 / Authorization Number
b.					EPA HW Number: XX / Authorization Number
c.					EPA HW Number: XX / Authorization Number
d.					EPA HW Number: XX / Authorization Number

J. Additional Descriptions for Materials Listed Above: 11a. RVLB0101 - ADDITIONAL EPA F005

K. Handling Codes for Wastes Listed Above In Item # 14: G = Gallons Y = Cubic Yards

15. Special Handling Instructions and Additional Information

GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed / Typed Name: [redacted] — Signature — Month Day Year: 10 05 92

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name: Terrence R Holtzin — Signature — Month Day Year: 10 05 92

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed / Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space: Line 11a material has a flash point greater than 140°F therefore DOT class not apply.

20. Facility Owner or Operator: Certification of receipt of hardous materials covered by this manifest except as noted in item 19.

Printed / Typed Name: Karen K. Martin — Signature — Month Day Year: 10 05 92

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 4. TRANSPORTER 1 COPY

In case of a spill call the Illinois Office of Emergency Response at 217/782-7860 and the National Response Center at 800/424-8802 or 202/426-2675.

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. N C D 0 0 0 6 4 8 4 5 1 — Manifest Document No. 3 1 3 2 4
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is by State law.

GENERATOR

Generator's Name and Mailing Address
LAIDLAW ENVIRONMENTAL SERVICES (TS), INC
RT. 11, BOX 3 208 WATLINGTON INDUSTRIAL ROAD, REIDSVILLE, NC 27320
Generator's Phone (919) 342-6106

A. State Manifest Document Number
B. State Generator's ID

TRANSPORTER

5. Transporter 1 Company Name: LAIDLAW ENV. SER. OF ILL. INC.
6. U.S. EPA ID Number: I L D 9 8 0 5 0 2 7 4 4
C. State Transporter's ID
D. Transporter's Phone (812) 239-2371

Transporter 2 Company Name
8. U.S. EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

DESIGNATED FACILITY

9. Designated Facility Name and Site Address
LAIDLAW ENVIRONMENTAL SERVICES (ROC), INC.
301 RAILROAD STREET
ROEBUCK, SC 29376
10. U.S. EPA ID Number: S C D 9 8 1 4 6 7 6 1 6
G. State Facility's ID
H. Facility's Phone: (803) 576-1085

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
X HAZARDOUS WASTE LIQUID, N.O.S.,(WATER,TOLUENE),ORM-E NA9189	0 0 1	T T	1 0 0 0 0	P	F 0 0 5

Additional Descriptions for Materials Listed Above
a. T O - T 0 0 6 4 - 0 8 1 5 64
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes: a. b. c. d.
Profile Numbers: a. RVLB0101 b. c. d.
WO#: 13707 Emergency Contact: 1-800-535-5053 (598)

Public reporting burden for this collection of information is estimated to average .37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South [redacted].

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Rodney K. Martin
Signature
Month Day Year: 0 8 0 5 9 2

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: George R Holtz Jr
Signature
Month Day Year: 0 8 0 5 9 2

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

FACILITY

19. Discrepancy Indication Space
a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: TIM NELSON
Signature
Month Day Year: 0 8 0 5 9 2

(DHEC 1088 (Rev. 5/89))

LAIDLAW Use Only

LAIDLAW ENVIRONMENTAL SERVICES

NAME OF WASTE STREAM

MATERIAL PROFILE

Water and Paint Solvents

Generator Name COUNTY ROAD 10 LANDFILL
Facility Address COUNTY ROAD 10 & NAPPANEE ST.
City ELKHART County ELKHART
State IN Zip Code 46514
EPA Identification Number IND 980500292
State Identification Number

Technical Contact
Title
Telephone ( ) EXT
Billing Address
City State Zip

Is Sample Available Upon Request? Yes ____ No ____

Process Generating Waste groundwater contaminated by leaking drums
Rate of Generation one-time Container Type/Size tanker EPA Waste No. D001, F005 State Waste No.
1. Does this waste contain spent solvents (F001 through F005)? Y ✓ N Materials listed under the California list? Y N ✓
2. Is this waste listed for Dioxin as defined in 40 CFR 262.31? (F020 - F023 and F026 - 28) Y N ✓
3. Is this waste INFECTIOUS? Y N ✓ Is it RADIOACTIVE? Y N ✓ Does it contain PCB's> 50ppm? Y N ✓
4. If you answered yes to questions 2 or 3,...DO NOT CONTINUE. Please contact your LAIDLAW Technical Sales Representative for assistance.

Chemical Constituents (Must Total 100%)

water	70-97%
toluene	1-5%
mineral spirits	1-3%
=	

(Please Attach All MSDS's, Sample Analysis and Additional Info.)

Physical Characteristics at 70°F

Physical State: Liquid ✓ Semisolid Solid
Layers: None Two ✓ Multilayers
Free Liquids (%) >97 Precipitated Solids (%) >1%
Viscosity: Low ✓ Medium High
Is Material Pumpable? Yes ✓ No Polymerizable? Yes No ✓
Specific Weight (lbs./gal) ≈8.0 /OR Specific Gravity(g/cc)
Appearance brownish liquid Odor solvent
Flash Point(cc): Exact <60°F 61°F - 100°F ✓
101°F - 140°F 141°F - 200°F >200°F
BTU/lb. 420 Ash(%) <2% Water(%) 70-97
pH (avg) 7 Range 6 to 8
Reactivity (Reactive with):

Metals (ppm)

	Total	TCLP		Total	TCLP		Total	Total		Total	Total
As		0	Cr(Total)		0	Be		Si			
Ag		0	Cr(Hex)		0	Ti		Na			
Cd		0	Hg		0	Sb		Ni			
Ba		0.2	Se		0.7	S		Cu			
Pb		0				P		Zn			

Other:(Specify in PPM)
Free Cyanide <1.0 Phenolics <10
Total Cyanide <50.0 PCB's 0
Free Sulfide 0

Total Organic Halogens (%)
Fluorine <1 Bromine <1
Chlorine <1

I certify that all information on this form is complete and factual (including attached information) and is an accurate representation of the known and suspected hazards of the waste to be disposed.
Generators Signature 7/7/92 Date

Information Completed By:
Name: Kyle Carter
Title: Remedial Mgr. Date 07/15/92

5" 0732 585004 (3 92)

TC RULE CERTIFICATION/RECERTIFICATION FORM

Generator Name: County Road 10 Landfill EPA ID# IND 980 560 292

Location: Elkhart.

Profile#: Water + Paint Solvents

CHARACTERISTICS OF HAZARDOUS WASTE: Indicate if this waste contains any of the following characteristics based on criteria mandated by 40 CFR 261.21, 261.22, 261.23 and 261.24.

		Regulatory Threshold Level	Yes	No	(Check One) Scientific Data	Generator's Knowledge	Actual Value
D001	Characteristic of Ignitability	<140F	X		X		68°F
D002	Characteristic of Corrosivity	≤2 or ≥12.5		X		X	
D003	Characteristic of Reactivity			X		X	

	Constituent	*Regulatory Threshold Level, ppm	Yes	No	(Check One) Scientific Data	Generator's Knowledge	Actual Value (ppm)
D004	(Arsenic)	5.0		X	X		0
D005	(Barium)	100.0		X	X		0.2
D006	(Cadmium)	1.0		X	X		0
D007	(Chromium)	5.0		X	X		0
D008	(Lead)	5.0		X	X		0
D009	(Mercury)	0.2		X	X		0
D010	(Selenium)	1.0		X	X		0.7
D011	(Silver)	5.0		X	X		0
D012	Endrin	0.02		X		X	
D013	Lindane	0.4		X		X	
D014	Methoxychlor	10.0		X		X	
D015	Toxaphene	0.5		X		X	
D016	2, 4-D (2, 4-Dichlorophenoxyacetic acid)	10.0		X		X	
D017	2,4,5-TP Silvex	1.0		X		X	
D018	Benzene	0.5		X		X	
D019	Carbon Tetrachloride	0.5		X		X	
D020	Chlordane	0.03		X		X	
D021	Chlorobenzene	100.0		X		X	
D022	Chloroform	6.0		X		X	
D023	o-Cresol	200.0		X		X	
D024	m-Cresol	200.0		X		X	
D025	p-Cresol	200.0		X		X	
D026	Cresol	200.0		X		X	
D027	1,4-Dichlorobenzene	7.5		X		X	
D028	1,2 Dichloroethane	0.5		X		X	
D029	1,1 Dichloroethylene	0.7		X		X	
D030	2,4-Dinitrotoluene	0.13		X		X	
D031	Heptachlor (and its hydroxide)	0.008		X		X	
D032	Hexachlorobenzene	0.13		X		X	
D033	Hexachlorobutadiene	0.5		X		X	
D034	Hexachloroethane	3.0		X		X	
D035	Methyl ethyl ketone	200.0		X		X	
D036	Nitrobenzene	2.0		X		X	
D037	Pentachlorophenol	100.0		X		X	

Constituent	*Regulatory Threshold Level, ppm	Yes	No	(Check One) Scientific Data	Generator's Knowledge	Actual Value
D038 Pyridine	5.0		X		X	
D039 Tetrachloroethylene	0.7		X		X	
D040 Trichloroethylene	0.5		X		X	
D041 2,4,5-Trichlorophenol	400.0		X		X	
D042 2,4,6-Trichlorophenol	2.0		X		X	
D043 Vinyl Chloride	0.2		X		X	

* As defined by the TCLP (Method 1311), EP Toxicity is no longer acceptable.

Use of Generator's Knowledge is based upon the following (check one):

1)_____ MDSD's (Please attach)

2)_____ Analysis (Please attach)

__X__ Other (Explain how determined, example: Not Present in Process Producing)
paint solvent drums leaked into groundwater

"LISTED" Hazardous Wastes: Indicate if this waste also contains any listed hazardous wastes coded in 40 CFR 261.31, 261.32 and 261.33 by including the appropriate EPA Hazardous Waste code(s)

F005

GENERATOR CERTIFICATION

I hereby certify that all information submitted on this form and all attached documents are true and accurate. In the event that this form is not fully completed, I authorze Laidlaw Environmental Services to conduct necessary testing at my expense to properly complete the form.

SIGNATURE: [signature] DATE: 7/7/92

PRINT NAME: CHARLES HINES TITLE: Prin.

C.R. 10 Landfill
Removal Action
Elkhart, IN

August 1992
1044BR

APPENDIX E
Transport and Disposal Documentation for Drummed Wastes

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 9/81 IL532-0610

EPA Form 8700-22 (Rev. 9-88)

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-92

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. ILD 980 502 744 | Manifest Document No. 81092

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address
HIMCO WASTE SYSTEMS / COUNTY RD 10 LANDFILL
COUNTY RD 10 LANDFILL AT NAPPANEE ST
ELKHART, IN 46514

A. Illinois Manifest Document Number IL 3921481 FEE PAID IF APPLICABLE

B. Illinois Generator's ID 9 1 8 6 3 9 7 7 2 1

4. 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS: 1-815-239-2377

5. Transporter 1 Company Name: LAIDLAW ENVIR. SERVS OF ILLINOIS, INC

6. US EPA ID Number: ILD 980 502 744

C. Illinois Transporter's ID CC15

D. (815) 239-2377 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
LAIDLAW ENVIR. SERVS. OF ILLINOIS, INC.
6125 N. PECATONICA RD
PECATONICA, IL 61063

10. US EPA ID Number: ILD 980 502 744

G. Illinois Facility's ID 2 0 1 8 0 0 0 0 0 2

H. Facility's Phone (815) 239-2377

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
HM a. X RQ HAZARDOUS WASTE SOLID, N.O.S., ORM-E NA9189 (TOLUENE) (EPA RQ F005) 08-20	013	DM	00715	G	EPA HW Number XX F005 Authorization Number 000240
b. HAZARDOUS WASTE SOLID, N.O.S., ORM-E NA9189 (TOLUENE) (EPA F005)	002	DM	00110	G	EPA HW Number XX F005 Authorization Number 000240
c. X WASTE PAINT RELATED MATERIAL, (X) 1,2,3,4,5 (37) FLAMMABLE LIQUID, UN1263 (TOLUENE) RQ (DOT, F005)	006	DM	00330	G	EPA HW Number XX D001 Authorization Number 000240
d. RESIDUE: LAST CONTAINED PAINT NON REGULATED (NONE) 21-36 (NONE)	016	DM	00806	G	EPA HW Number XX Authorization Number 000239

J. Additional Description for Materials Listed Above
11 A. HMO 001 CODE 15 ID. #MO 004 CODE 14
11 B. HMO 002 CODE 15
11 C. HMO 003 ALSO F005 CODE 14

K. Handling Codes for Wastes Listed Above In Item #14
G = Gallons Y = Cubic Yards

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month Day Year
CHARLES H. HIMES JR. Pres	C H Himes	08 10 92

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
Kenneth W Bozic	Kenneth W Bozic	08 10 92

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Month Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-7860 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

LAIDLAW Use Only Inc MSP
Haz W. Solid

LAIDLAW ENVIRONMENTAL SERVICES

NAME OF WASTE STREAM

MATERIAL PROFILE HMO-001 — Solid Paint

Generator Name County Road 10 Landfill
Facility Address HIMCO WASTE AWAY SERVICE INC.
County Road 10 & Nappanee St.
City Elkhart County Elkhart
State In Zip Code 46514
EPA Identification Number IN D980500292
State Identification Number

Technical Contact
Title
Telephone ( ) EXT.
Billing Address
City State Zip

Is Sample Available Upon Request? Yes ___ No ✓

Process Generating Waste drum excavated from landfill
Rate of Generation one time Container Type/Size 55, 85, or 110 EPA Waste No. F005 State Waste No.

1. Does this waste contain spent solvents (F001 through F005)? Y ___ N ___ Materials listed under the California list? Y ___ N ✓
2. Is this waste listed for Dioxin as defined in 40 CFR 262.31? (F020 - F023 and F026 - 28) Y ___ N ✓
3. Is this waste INFECTIOUS? Y ___ N ✓ Is it RADIOACTIVE? Y ___ N ✓ Does it contain PCB's> 50ppm? Y ___ N ✓
4. If you answered yes to questions 2 or 3,...DO NOT CONTINUE. Please contact your LAIDLAW Technical Sales Representative for assistance.

Chemical Constituents (Must Total 100%)

paint pigments	>98%
toluene	0-2%
mineral spirits	0-2%
≡	

(Please Attach All MSDS's, Sample Analysis and Additional Info.)

Physical Characteristics at 70°F

Physical State: Liquid ___ Semisolid ___ Solid ✓
Layers: None ✓ Two ___ Multilayers ___
Free Liquids (%) 0 Precipitated Solids (%) ___
Viscosity: Low ___ Medium ___ High ✓
Is Material Pumpable? Yes ___ No ✓ Polymerizable? Yes ___ No ✓
Specific Weight (lbs./gal) ___ /OR Specific Gravity(g/cc) 1.0
Appearance various colored paint solids Odor solvent
Flash Point(cc): Exact ___ <60°F ___ 61°F - 100°F ___
101°F - 140°F ___ 141°F - 200°F ___ >200°F X
BTU/lb. ___ Ash(%) 35-50 Water(%) <1
pH (avg) N/A Range ___ to ___
Reactivity (Reactive with): ___

Metals (ppm)

	Total	TCLP		Total	TCLP
As		0	Cr(Total)		0
Ag		0	Cr(Hex)		0
Cd		0	Hg		0
Ba		0.5	Se		<0.1
Pb		0			

	Total		Total
Be		Si	
Ti		Na	
Sb		Ni	
S		Cu	
P		Zn	

Other:(Specify In PPM)
Free Cyanide 0 Phenolics <10
Total Cyanide <50 PCB's 0
Free Sulfide 0

Total Organic Halogens (%)
Fluorine 0 Bromine 0
Chlorine 0

I certify that all information on this form is complete and factual (including attached information) and is an accurate representation of the known and suspected hazards of the waste to be disposed.

Generators Signature [signature] Date 7/7/92

Information Completed By:
Name: Kyle Carter
Title: Remedial Mgr Date: 06/18/92

585 0732 585004 (3 92)

ORIGINAL-FINAL T.S.D. • GREEN-TRANSCERT • YELLOW-DISPOSER • PINK-TSD • GOLD-GENERATOR

LAIDLAW Use Only

LAIDLAW ENVIRONMENTAL SERVICES

MATERIAL PROFILE

NAME OF WASTE STREAM: HMO-004 | MT

Generator Name: Elmco/County Rd 10 Landfill - Elmco Waste Away Service
Facility Address: County Rd 10 at Marquette St
Elkhart IN
City: Elkhart County:
State: IN Zip Code: 46514
EPA Identification Number: 980500292
State Identification Number: 918039772I

Technical Contact:
Title:
Telephone ( ) EXT.
Billing Address:
City State Zip

Is Sample Available Upon Request? Yes: No: ✓

Process Generating Waste: Pumped Liquids
Rate of Generation: OVE TIME Container Type/Size: 55 DM EPA Waste No.: None State Waste No.: NONE

1. Does this waste contain spent solvents (F001 through F005)? Y: N: ✓ Materials listed under the California list? Y: N: ✓
2. Is this waste listed for Dioxin as defined in 40 CFR 262.31? (F020 - F023 and F026 - 28)Y: N: ✓
3. Is this waste INFECTIOUS? Y: N: ✓ Is it RADIOACTIVE? Y: N: ✓ Does it contain PCB's> 50ppm? Y: N: ✓
4. If you answered yes to questions 2 or 3,...DO NOT CONTINUE. Please contact your LAIDLAW Technical Sales Representative for assistance.

Chemical Constituents (Must Total 100%)

DRUM	98-100%
Residue - Paint/water	0-2%
=	

(Please Attach All MSDS's, Sample Analysis and Additional Info.)

Physical Characteristics at 70°F

Physical State: Liquid Semisolid Solid ✓
Layers: None ✓ Two Multilayers
Free Liquids (%) 0-2% Precipitated Solids (%) 98-100%
Viscosity: Low Medium High ✓
Is Material Pumpable? Yes No ✓ Polymerizable? Yes No ✓
Specific Weight (lbs./gal) /OR Specific Gravity(g/cc) 22
Appearance MT DRUM Odor PAINT
Flash Point(cc): Exact <60°F 61°F - 100°F
101°F - 140°F 141°F - 200°F >200°F ✓
BTU/lb. 4000 Ash(%) 10% Water(%) 0%
pH (avg) 7 Range 6 to 8
Reactivity (Reactive with): None

Metals (ppm)

	Total	TCLP		Total	TCLP		Total	Total
As	45		Cr(Total)	65		Be	41	Si 41
Ag	45		Cr(Hex)	45		Ti	41	Na 41
Cd	41		Hg	1.2		Sb	41	Ni 41
Ba	4100		Se	41		S	41	Cu 41
Pb	45					P	41	Zn 41

Other:(Specify in PPM)

Free Cyanide 0 Phenolics 0
Total Cyanide 0 PCB's 0
Free Sulfide 0

Total Organic Halogens (%)

Fluorine 0 Bromine 0
Chlorine 0

I certify that all information on this form is complete and factual (including attached information) and is an accurate representation of the known and suspected hazards of the waste to be disposed.

Generators Signature: [signature] Date: 8/10/92

Information Completed by:
Name: [signature]
Title: Mgr Mkt Date: 8-10-92

585-0732-585004 (3-92)

ORIGINAL-FINAL T.S.D. • GREEN-TRANSCERT • YELLOW-DISPOSER • PINK-1ST T.S.D. • GOLD-GENERATOR

LAIDLAW Use Only Inc MSP
w. Paint Related Material

LAIDLAW ENVIRONMENTAL SERVICES

MATERIAL PROFILE HMO-003

NAME OF WASTE STREAM: Paint Related Material

Generator Name: County Road 10 Landfill - Hinco Waste Service
Facility Address: County Road 10 @ Nappanee St
City: Elkhart County: Elkhart
State: In Zip Code: 46514
EPA Identification Number: IND980500282
State Identification Number:

Technical Contact:
Title:
Telephone ( ) EXT.
Billing Address:
City State Zip

Is Sample Available Upon Request? Yes ___ No ✓

Process Generating Waste: waste paint drums removed from landfill
Rate of Generation: Container Type/Size: 55, 85, 110 EPA Waste No.: D001, F005 State Waste No.:

1. Does this waste contain spent solvents (F001 through F005)? Y ✓ N ___ Materials listed under the California list? Y ___ N ✓
2. Is this waste listed for Dioxin as defined in 40 CFR 262.31? (F020 - F023 and F026 - 28) Y ___ N ✓
3. Is this waste INFECTIOUS? Y ___ N ✓ Is it RADIOACTIVE? Y ___ N ✓ Does it contain PCB's > 50ppm? Y ___ N ✓
4. If you answered yes to questions 2 or 3,...DO NOT CONTINUE. Please contact your LAIDLAW Technical Sales Representative for assistance.

Drum No. 1,2,3,4,5,37

Chemical Constituents (Must Total 100%)

paint solids	10-95%
Toluene	5-90%
mineral spirits	5-80%
	=

(Please Attach All MSDS's, Sample Analysis and Additional Info.)

Physical Characteristics at 70°F

Physical State: Liquid ✓ Semisolid ___ Solid ___
Layers: None ___ Two ✓ Multilayers ___
Free Liquids (%) 5-90 Precipitated Solids (%) 5-95
Viscosity: Low ✓ Medium ✓ High ✓
Is Material Pumpable? Yes ___ No X Polymerizable? Yes ___ No X
Specific Weight (lbs./gal), 7-9 /OR Specific Gravity(g/cc) ___
Appearance varies in color Odor Solvent
Flash Point(cc): Exact 68. <60°F ___ 61°F - 100°F ✓
101°F - 140°F ___ 141°F - 200°F ___ >200°F ___
BTU/lb. >5000 Ash(%) 1-25% Water(%) <1
pH (avg) N/A Range ___ to ___
Reactivity (Reactive with): ___

Metals (ppm)

	Total	TCLP		Total	TCLP		Total	Total
As		0	Cr(Total)		0	Be		Si
Ag		0	Cr(Hex)		0	Ti		Na
Cd		0	Hg		0	Sb		Ni
Ba		<0.2	Se		<0.7	S		Cu
Pb		0				P		Zn

Other:(Specify in PPM)
Free Cyanide <1 Phenolics <10
Total Cyanide <50 PCB's 0
Free Sulfide 0

Total Organic Halogens (%)
Fluorine 0 Bromine 0
Chlorine 0

I certify that all information on this form is complete and factual (including attached information) and is an accurate representation of the known and suspected hazards of the waste to be disposed.

Generators Signature ___ Date 7/7/92

Information Completed By:
Name: Kyle Carter
Title: Remedial Mgr. Date: 06/18/92

585 0732 585004 (3 92)

LAIDLAW Use Only Haz Wi Sol IIIc MSP

LAIDLAW ENVIRONMENTAL SERVICES

MATERIAL PROFILE HMO-002

NAME OF WASTE STREAM: Tyvek + debris

Generator Name County Road 10 Landfill - HMCO WASTE AWAY SERVICE
Facility Address County Road 10 NAPPANEE
City ELKHART County ELKHART
State INDIANA Zip Code 46514
EPA Identification Number IND 980500292
State Identification Number

Technical Contact
Title
Telephone ( ) EXT.
Billing Address
City State Zip

Is Sample Available Upon Request? Yes ___ No ✓

Process Generating Waste PPE and plastic
Rate of Generation Container Type/Size EPA Waste No. F005 State Waste No.

1. Does this waste contain spent solvents (F001 through F005)? Y ✓ N Materials listed under the California list? Y N ✓
2. Is this waste listed for Dioxin as defined in 40 CFR 262.31? (F020 - F023 and F026 - 28) Y N ✓
3. Is this waste INFECTIOUS? Y N ✓ Is it RADIOACTIVE? Y N ✓ Does it contain PCB's> 50ppm? Y N ✓
4. If you answered yes to questions 2 or 3,...DO NOT CONTINUE. Please contact your LAIDLAW Technical Sales Representative for assistance.

Chemical Constituents (Must Total 100%)

tyvek	80-90%
plastic	10-20%
paint (solvent based)	1-2%
=	

(Please Attach All MSDS's, Sample Analysis and Additional Info.)

Physical Characteristics at 70°F

Physical State: Liquid Semisolid Solid ✓
Layers: None Two Multilayers
Free Liquids (%) <1 Precipitated Solids (%)
Viscosity: Low Medium High ✓
Is Material Pumpable? Yes No ✓ Polymerizable? Yes No
Specific Weight (lbs./gal) /OR Specific Gravity(g/cc) <1.0
Appearance tyvek and plastic Odor
Flash Point(cc): Exact <60°F 61°F - 100°F
101°F - 140°F 141°F - 200°F >200°F X
BTU/lb. > 5000 Ash(%) > 5% Water(%) <1
pH (avg) N/A Range to
Reactivity (Reactive with):

Metals (ppm)

	Total	TCLP		Total	TCLP		Total	Total
As		0	Cr(Total)		0	Be		Si
Ag		0	Cr(Hex)		0	Ti		Na
Cd		0	Hg		0	Sb		Ni
Ba		0	Se		0	S		Cu
Pb		0				P		Zn

Other:(Specify in PPM)
Free Cyanide <1 Phenolics 0
Total Cyanide <10 PCB's 0
Free Sulfide 0

Total Organic Halogens (%)
Fluorine <1 Bromine <1
Chlorine <1

I certify that all information on this form is complete and factual (including attached information) and is an accurate representation of the known and suspected hazards of the waste to be disposed.

Generators Signature Date 7/7/92

Information Completed By:
Name: Kyle Carter
Title: Remedial Mgr Date 06/18/92

585 (3-92) 585004 (3 92)

ORIGINAL-FINAL T.S.D. • GREEN-TRANSCERT • YELLOW-DISPOSER • PINK-GENERATOR

OF LOUISIANA
ENVIRONMENTAL QUALITY
OUS WASTE DIVISION
P.O. BOX 82178
ROUGE, LOUISIANA 70884-2178

INT OR TYPE (Form designed for use on elite (12-pitch) typewriter.)

RECYCLE / REUSE

Form Approved. OMB No. 2050-0039. Expires 9-30-92

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	[illegible]
Manifest Document No.	[illegible]
2. Page 1 of	[illegible]
Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address	[illegible]
4. Generator's Phone ( )	[illegible]
A. State Manifest Document Number	LA A 3116036
B. State Generator's ID	[illegible]
5. Transporter 1 Company Name	[illegible]
6. US EPA ID Number	[illegible]
C. State Transporter's ID	[illegible]
D. Transporter's Phone	[illegible]
7. Transporter 2 Company Name	
8. US EPA ID Number	
E. State Transporter's ID	
F. Transporter's Phone	
9. Designated Facility Name and Site Address	MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380
10. US EPA ID Number	LAD981057706
G. State Facility's ID	
H. Facility's Phone	(504) 631-2161

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. [illegible]	[illegible] (circled 6)	[illegible]	[illegible] 35 (circled 6)	G	F001R, F002R
b. [illegible]	[illegible]	[illegible]	[illegible]	G	F003R, F005R
c. [illegible]	[illegible]	[illegible]	[illegible]	G	F005R
d. [illegible]	[illegible]	[illegible]	[illegible]	G	F005R

J. Additional Descriptions for Materials Listed Above — RECYCLE/REUSE

a. FIN-PSCI9100477
b. FIN-PSCI9102714
c. FIN-PSCI9102714
d. FIN-PSCI9100477

K. Handling Codes for Wastes Listed Above

a. H053
b. H053
c. H053
d. H053

15. Special Handling Instructions and Additional Information

[illegible]

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month Day Year
[illegible]	Rick Sauve	[illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
[illegible]	[illegible]	[illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month Day Year

IF SPILLED IN LOUISIANA CALL THE LOUISIANA HAZMAT UNIT AT 504/925-6595 (DAY OR NIGHT)

GENERATOR / TRANSPORTER / FACILITY

COPY 8

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 82178
BATON ROUGE, LOUISIANA 70884-2178

RECYCLE/REUSE

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-92

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. | 2. Page 1 of | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

A. State Manifest Document Number: LA A 3116050

B. State Generator's ID

5. Transporter 1 Company Name | 6. US EPA ID Number | C. State Transporter's ID | D. Transporter's Phone

7. Transporter 2 Company Name | 8. US EPA ID Number | E. State Transporter's ID | F. Transporter's Phone

9. Designated Facility Name and Site Address | 10. US EPA ID Number | G. State Facility's ID | H. Facility's Phone

MARINE SHALE PROCESSORS, INC.
HIGHWAY 90 EAST
MORGAN CITY, LOUISIANA 70380

L A D 0 8 1 8 6 7 7 0 8

(504) 923-3461

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a.					
b.					
c.	6		330		
d.					

J. Additional Descriptions for Materials Listed Above

a. PIN-PSCI9100542
b. PIN-PSCI9100756
c. PIN-PSCI9100754
d. PIN-PSCI9100013

RECYCLE/REUSE
Other Recovery: Used as Supplemental Fuel in an Aggregate Manufacturing Process

K. Handling Codes for Wastes Listed Above

a. H053
b. H032
c. H032
d. H032

15. Special Handling Instructions and Additional Information

Emergency Contact: [illegible]

It is illegal to be under the influence of public safety materials such as asbestos, lead paint, PCBs, and other pollutants contained here including material.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]		14	

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	8	14	92

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR — TRANSPORTER — FACILITY

IF SPILLED IN LOUISIANA CALL THE LOUISIANA HAZMAT UNIT AT 504/925-6595 (DAY OR NIGHT)

COPY 8

EPA Form 8700-22 (Rev. 9/88) Previous edition is obsolete.

COPY 8: GENERATOR RETAINS

DEQ FORM HW-3 (R 9/89)

OF LOUISIANA
ENVIRONMENTAL QUALITY
DOUS WASTE DIVISION
P.O. BOX 82178
ROUGE, LOUISIANA 70884-2178

NT OR TYPE (Form designed for use on elite (12-pitch) typewriter.)

RECYCLE / REUSE

Form Approved. OMB No. 2050-0039. Expires 9-30-92

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
LAIDLAW ENVIRONMENTAL SERVICES OF LOUISIANA, INC.
P.O. BOX [illegible], [illegible], LOUISIANA, [illegible]

4. Generator's Phone ( ) [illegible]

A. State Manifest Document Number: LAA 3116037

B. State Generator's ID

5. Transporter 1 Company Name: J.D. HART SPECIAL CONSTRUCTION, INC.

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone [illegible]

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
MARINE SHALE PROCESSORS, INC.
HIGHWAY 90 EAST
MORGAN CITY, LOUISIANA 70380

10. US EPA ID Number: L A 9 0 8 1 0 5 7 7 0 3

G. State Facility's ID

H. Facility's Phone [illegible]

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. [illegible]					NA 9189
b. [illegible]					D001 D002
c. [illegible]					D001 D002
d. [illegible]					D001 D002

J. Additional Descriptions for Materials Listed Above
a. FIN-PSC1910454
b. FIN-PSC1910975
c. FIN-PSC1-2000
d. FIN-PSC1-20001

Spent Recovery used as ingredient/fuel in an aggregate manufacturing process

K. Handling Codes for Wastes Listed Above
a. H051
b. H032
c. H051
d. H051

15. Special Handling Instructions and Additional Information
[illegible]
EPA Waste #: D001, D002, D001, D002
[illegible]
[illegible]
Emergency Contact: [illegible]

If spilled in an environmentally hazardous manner, wear goggles, gloves, and other protective equipment when handling material.

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Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]		14	

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]			

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Month	Day	Year

COPY 8

STATE OF LOUISIANA
DEPT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 82178
BATON ROUGE, LOUISIANA 70884-2178

PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.)

RECYCLE / REUSE

Form Approved. OMB No. 2050-0039. Expires 9-30-92

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

A. State Manifest Document Number: LA A 3116038

B. State Generator's ID

5. Transporter 1 Company Name | 6. US EPA ID Number | C. State Transporter's ID | D. Transporter's Phone

7. Transporter 2 Company Name | 8. US EPA ID Number | E. State Transporter's ID | F. Transporter's Phone

9. Designated Facility Name and Site Address
MARINE SHALE PROCESSORS, INC.
HIGHWAY 90 EAST
MORGAN CITY, LOUISIANA 70380

10. US EPA ID Number
L A D 9 8 1 0 5 7 7 6 9

G. State Facility's ID

H. Facility's Phone
(504) 631-3161

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14 Unit Wt/Vol	I. Waste No.
a.					
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name	Signature	Month	Day	Year
			14	

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR

TRANSPORTER

FACILITY

IF SPILLED IN LOUISIANA CALL T... OUISIANA HAZMAT UNIT AT 504/925-6595 (DAY ... NIGHT)